

Product datasheet

Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control ab154856

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [79 References](#) [20 Images](#)

Overview

Product name	Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control
Description	Rabbit monoclonal [EPR10852(B)] to VDAC1/Porin + VDAC2 - Mitochondrial Loading Control
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, Jurkat, HEK-293, HAP1 and HeLa cell lysates; Mouse and rat kidney lysate; Rat cerebellum whole tissue lysate IHC-P: Human liver, heart, kidney, ovarian carcinoma, thyroid gland carcinoma, skeletal muscle and cervical carcinoma tissues; Rat kidney tissue; Mouse cardiac muscle tissue; ICC/IF: HeLa and Jurkat cells; IHC-Fr: Mouse cardiac and skeletal muscle tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Stable for 12 months at -20°C.

Storage buffer

Preservative: 0.01% Sodium azide
Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR10852(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154856 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

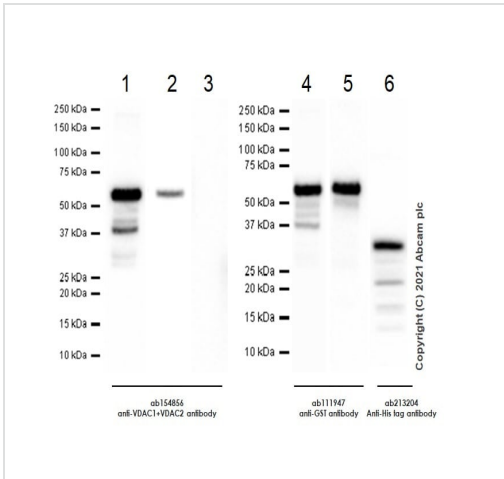
Application	Abreviews	Notes
WB	★★★★★ (4)	1/1000 - 1/10000. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/1000.
IHC-Fr		1/50. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Target

Cellular localization

VDAC1/Porin: Mitochondrion outer membrane. Cell membrane. VDAC2: Mitochondrion outer membrane.

Images



Western blot - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Lanes 1-3 : Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)]

- Mitochondrial Loading Control (ab154856) at 1/1000 dilution

Lanes 4-5 : Anti-GST antibody [EPR4236] (**ab111947**) at 1/1000 dilution

Lane 6 : Anti-6X His tag® antibody [EPR20547] - ChIP Grade (**ab213204**) at 1/1000 dilution

Lanes 1 & 4 : N-GST tagged full length recombinant human VDACC1 protein 10ng

Lanes 2 & 5 : N-GST tagged full length recombinant human VDACC2 protein 10ng

Lanes 3 & 6 : C-His tagged full length Recombinant Human VDACC3 protein 10ng

Secondary

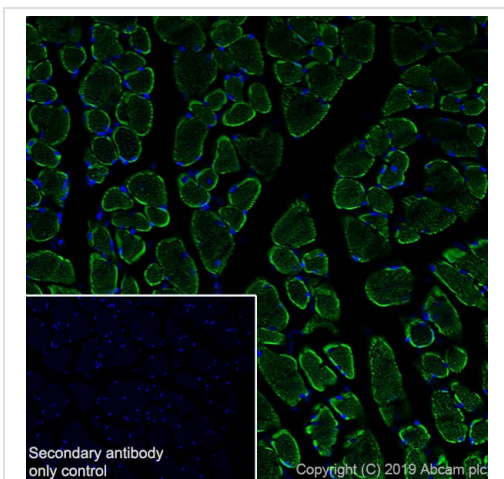
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 31 kDa

Observed band size: 55, 33 kDa

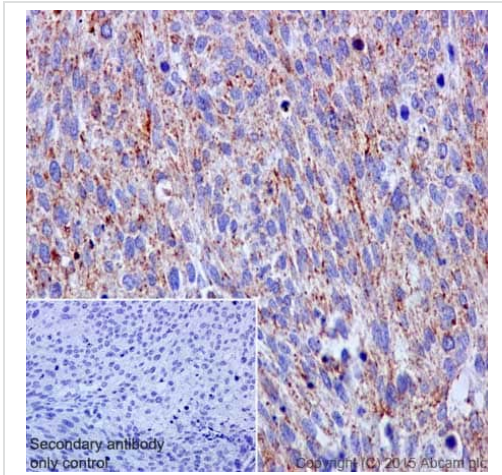
Exposure time: 40 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



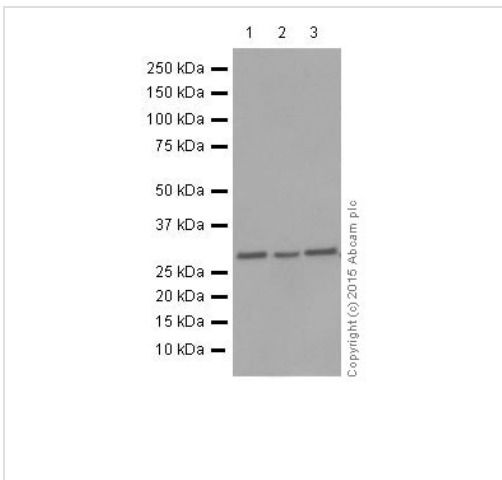
Immunohistochemistry (Frozen sections) - Anti-VDACC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemistry (Frozen sections) analysis of mouse skeletal muscle tissue sections labeling VDACC1 / Porin with Purified ab154856 at 1/50 (0.7 µg/ml). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemical staining of paraffin embedded human cervical carcinoma with purified ab154856 at a working dilution of 1/200. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Western blot - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

All lanes : Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/10000 dilution (purified)

- Lane 1** : HepG2 cell lysate
- Lane 2** : HEK293 cell lysate
- Lane 3** : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

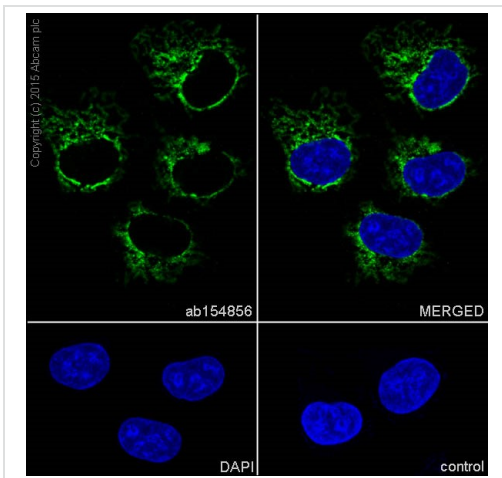
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 31 kDa

Observed band size: 31 kDa

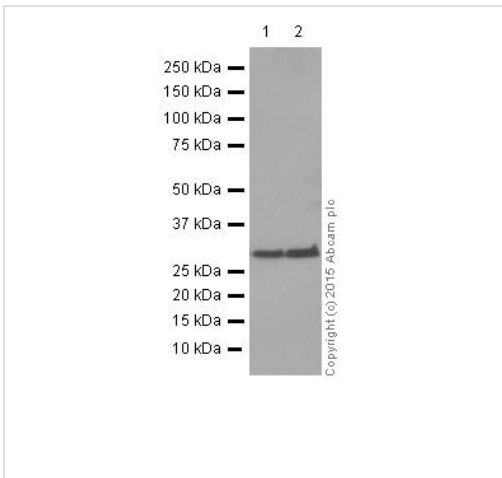
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

ab154856 staining VDAC1 / Porin showing cytoplasmic staining in HeLa cells (Human cervix adenocarcinoma epithelial cells) by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol, Samples were incubated with primary antibody (1/1000) for 1 hour at 21°C. **ab150077**, an Alexa Fluor® 488-conjugated Goat anti-Rabbit IgG (1:1000) was used as the secondary antibody. DAPI (1/200) was used as a counter stain.



Western blot - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

All lanes : Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/10000 dilution (purified)

Lane 1 : mouse kidney lysate

Lane 2 : rat kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary

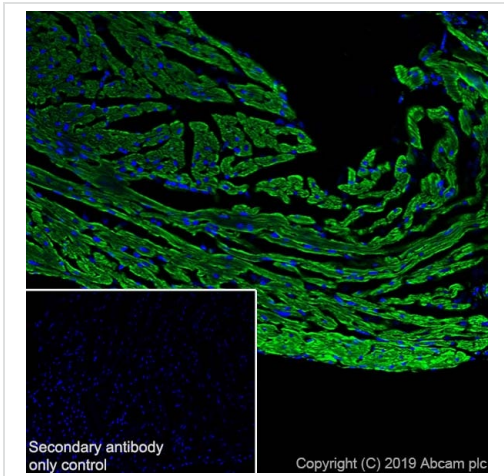
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 31 kDa

Observed band size: 31 kDa

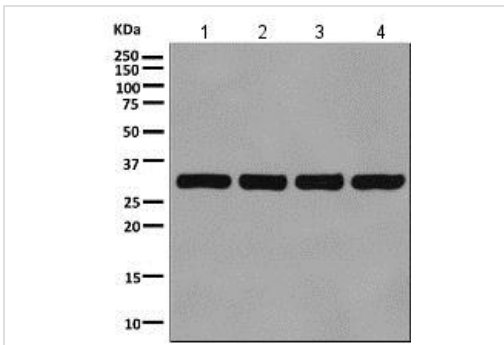
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemistry (Frozen sections) - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemistry (Frozen sections) analysis of mouse cardiac muscle tissue sections labeling VDAC1 / Porin with Purified ab154856 at 1/50 (0.7 µg/ml). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Western blot - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

All lanes : Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/1000 dilution (unpurified)

- Lane 1** : HepG2 cell lysate
- Lane 2** : Jurkat cell lysate
- Lane 3** : 293T cell lysate
- Lane 4** : HeLa cell lysate

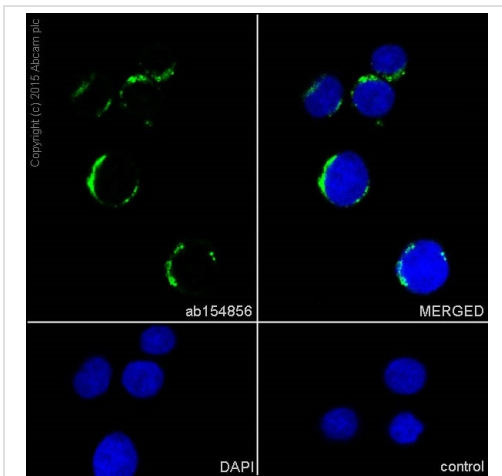
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

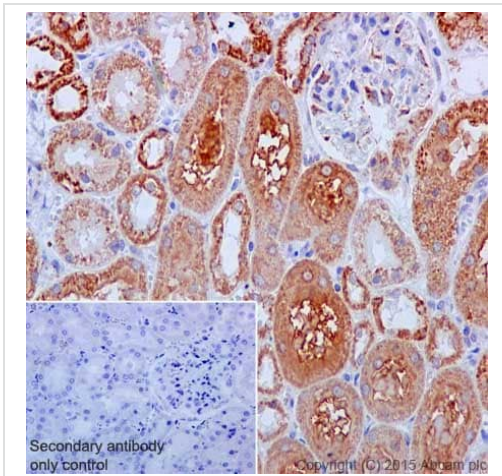
Predicted band size: 31 kDa

Secondary antibody - **anti-rabbit HRP (ab6721)**



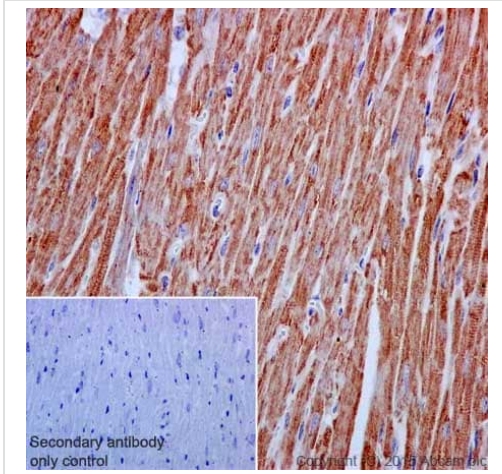
Immunocytochemistry/ Immunofluorescence - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

ab154856 staining VDAC1 / Porin showing cytoplasmic staining in Jurkat cells (Human T cell leukemia T lymphocyte) by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol, Samples were incubated with primary antibody (1/1000) for 1 hour at 21°C. **ab150077**, an Alexa Fluor® 488-conjugated Goat anti-Rabbit IgG (1:1000) was used as the secondary antibody. DAPI (1/200) was used as a counter stain.



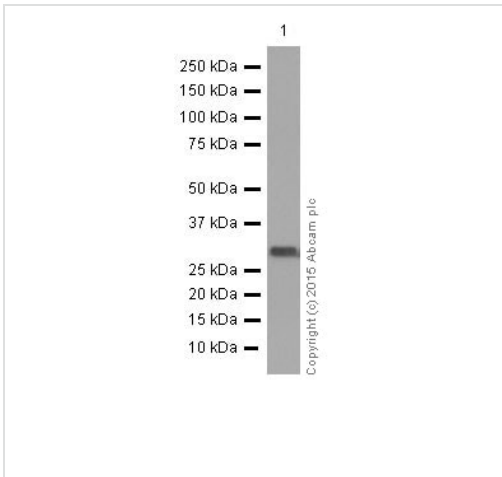
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemical staining of paraffin embedded rat kidney with purified ab154856 at a working dilution of 1/200. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunohistochemical staining of paraffin embedded mouse cardiac muscle with purified ab154856 at a working dilution of 1/200. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)



Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/2000 dilution (purified) + Jurkat cell lysate at 20 µg

Secondary

HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

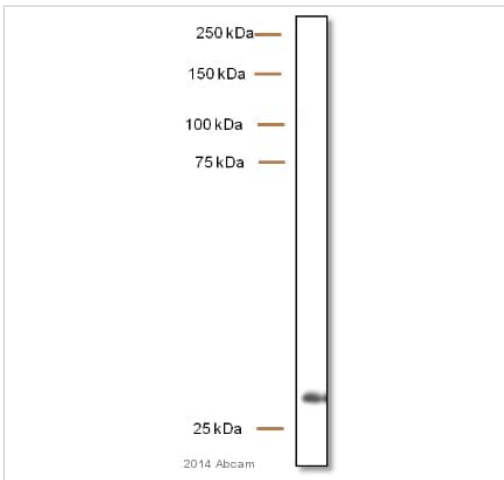
Predicted band size: 31 kDa

Observed band size: 31 kDa

Western blot - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

This image is courtesy of an anonymous Abreview

Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/5000 dilution (unpurified) + Rat cerebellum whole tissue lysate at 30 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97069**) (undiluted)

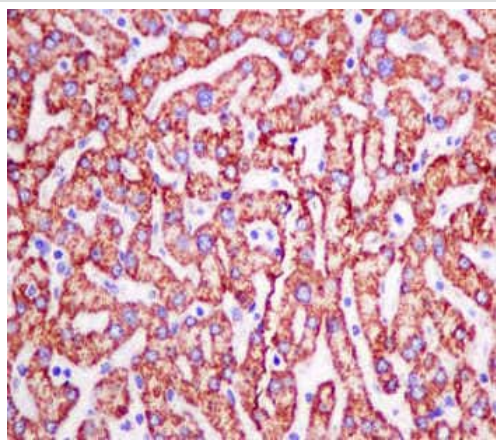
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 31 kDa

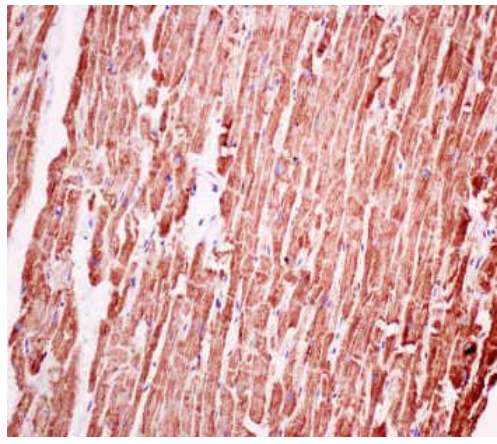
Exposure time: 2 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling VDAC1 with unpurified ab154856 at 1/100 dilution.

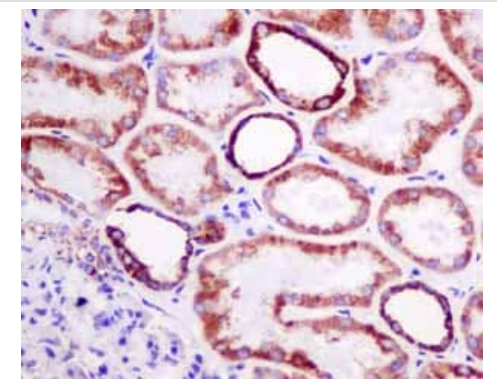
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemical analysis of paraffin-embedded human heart tissue labeling VDAC1 with unpurified ab154856 at 1/100 dilution.

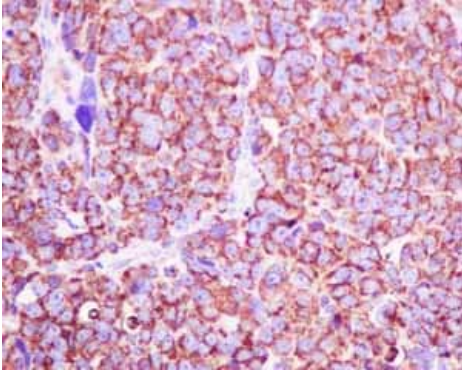
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDACC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemical analysis of paraffin embedded human normal kidney tissue using unpurified ab154856 showing +ve staining.

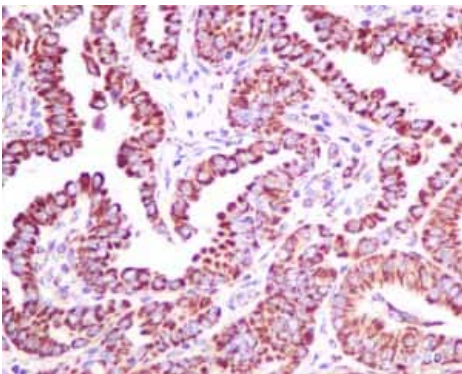
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin embedded human ovarian carcinoma tissue using unpurified ab154856 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

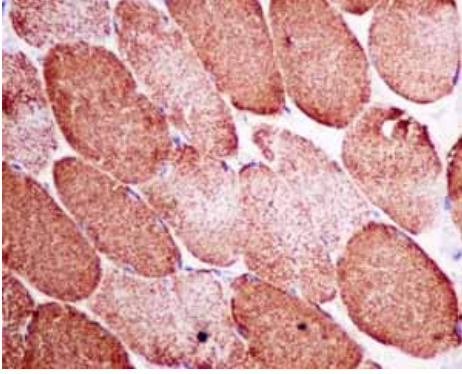
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)



Immunohistochemical analysis of paraffin embedded human thyroid gland carcinoma tissue using unpurified ab154856 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)



Immunohistochemical analysis of paraffin embedded human skeletal muscle tissue using unpurified ab154856 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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