abcam

Product datasheet

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

Recombinant RabMAb

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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	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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.

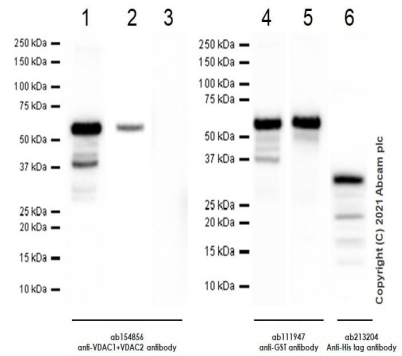
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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 + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Lanes 1-3 : Anti-VDAC1/Porin + VDAC2 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 VDAC1 protein 10ng

Lanes 2 & 5 : N-GST tagged full length recombinant human VDAC2 protein 10ng

Lanes 3 & 6 : C-His tagged full length Recombinant Human VDAC3 protein 10ng

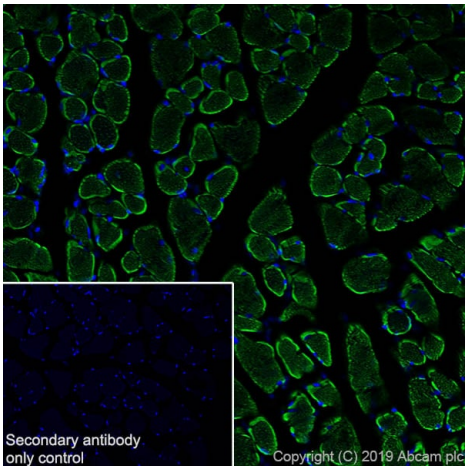
Secondary

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

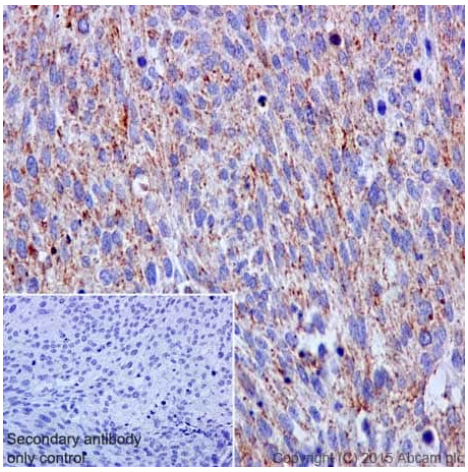
Exposure time: 40 seconds

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



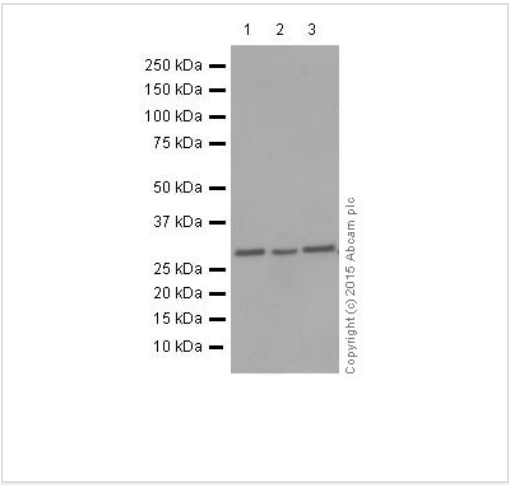
Immunohistochemistry (Frozen sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

Immunohistochemistry (Frozen sections) analysis of mouse skeletal 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.



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 perfomed 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)

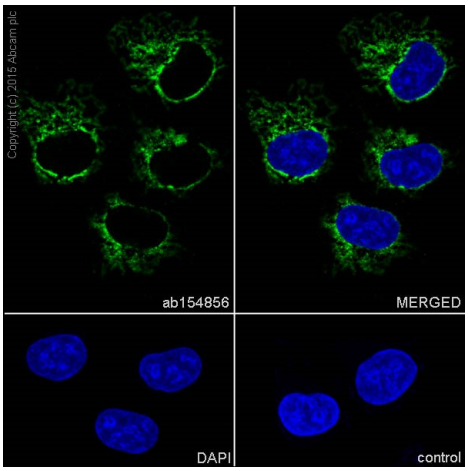
Lane 1 : HepG2 cell lysate
Lane 2 : HEK293 cell lysate
Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

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

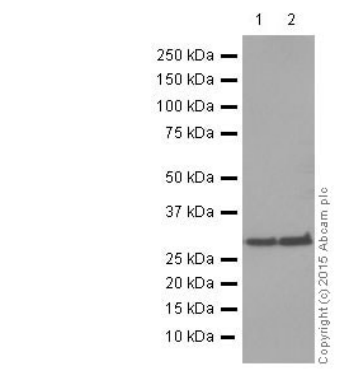
Predicted band size: 31 kDa
Observed band size: 31 kDa

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)

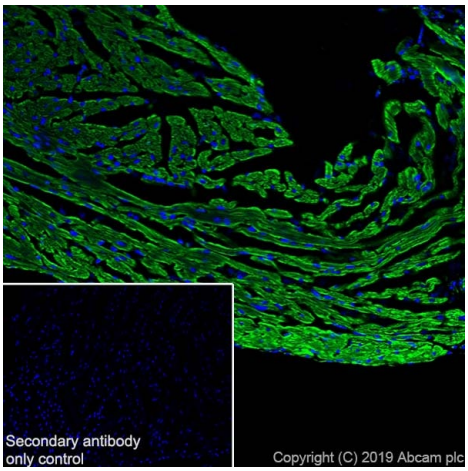
Lane 1 : mouse kidney lysate
Lane 2 : rat kidney lysate

Lysates/proteins at 20 µg per lane.

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

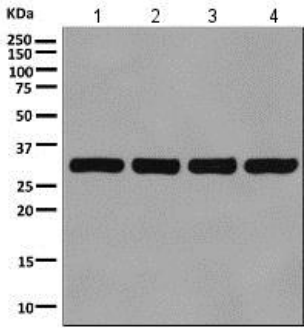
Predicted band size: 31 kDa
Observed band size: 31 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST



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

All lanes : Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856) at 1/1000 dilution (unpurified)

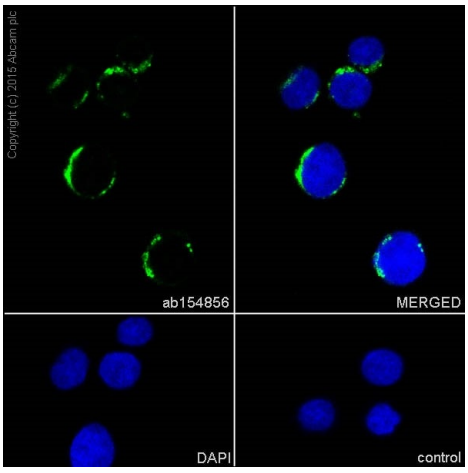
Lane 1 : HepG2 cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : 293T cell lysate
Lane 4 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

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

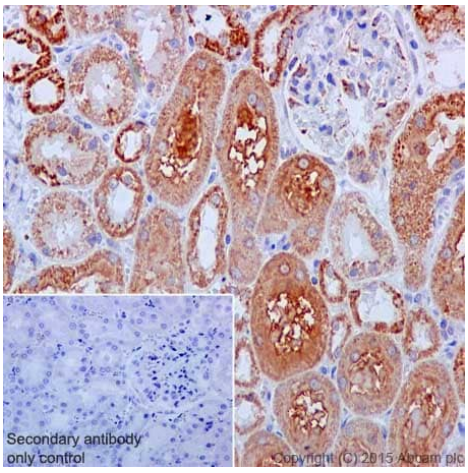
Predicted band size: 31 kDa

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



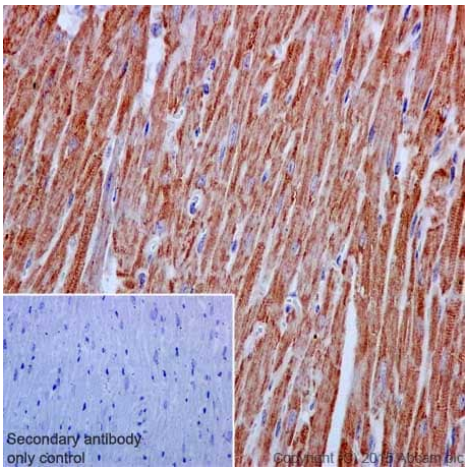
Immunocytochemistry/ Immunofluorescence - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

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.



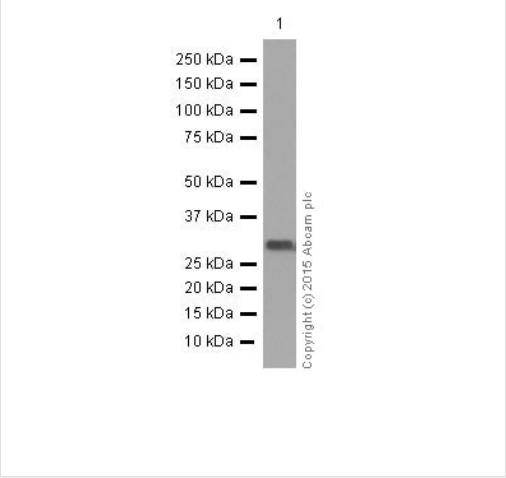
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

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 perfomed 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)

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 perfomed 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.



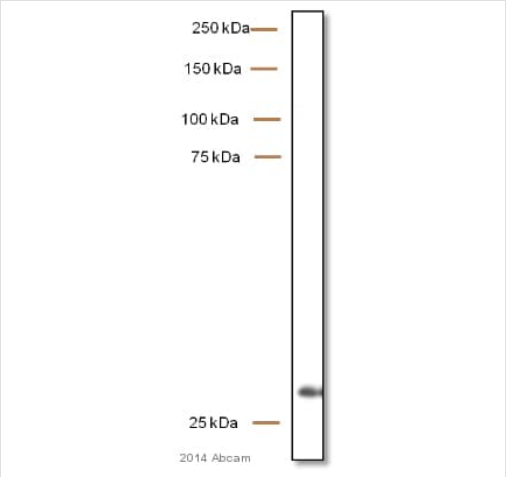
Western blot - Anti-VDAC1/Porin + VDAC2 antibody [EPR10852(B)] - Mitochondrial Loading Control (ab154856)

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

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

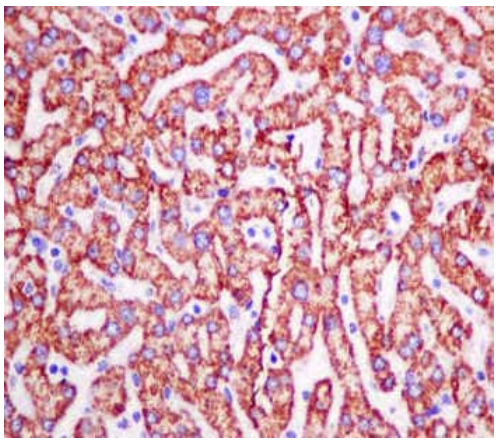
Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97069**) (undiluted)

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa
Observed band size: 31 kDa

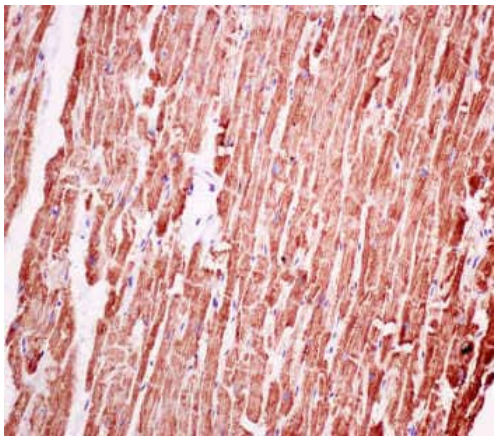
Exposure time: 2 seconds



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.

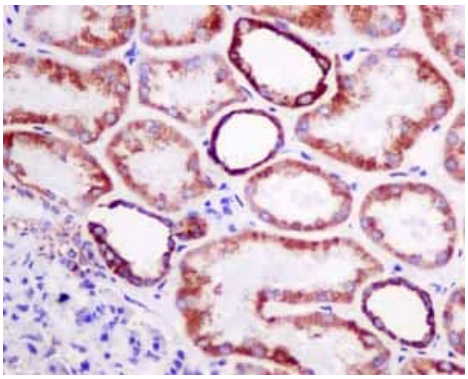
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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

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

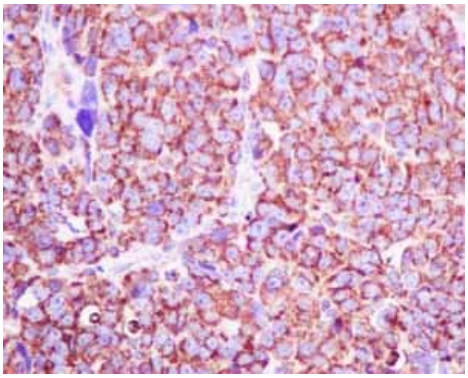
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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

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

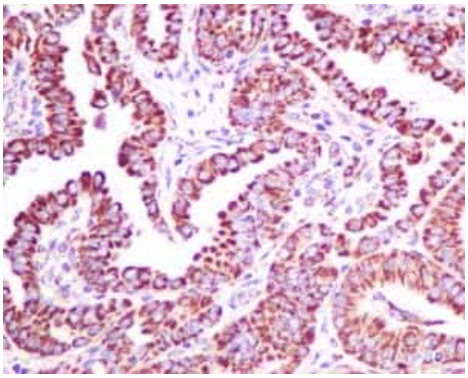
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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

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

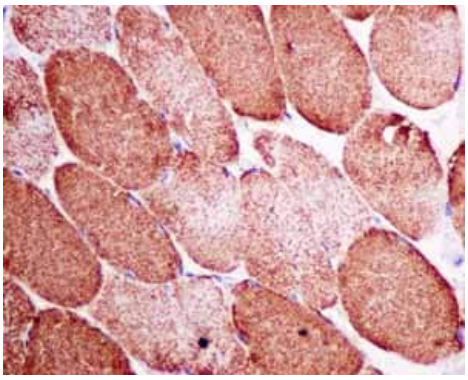
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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.

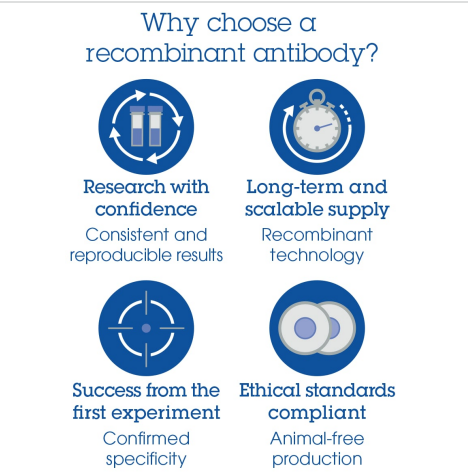
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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.



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

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