


Product datasheet

Anti-VDAC2 antibody ab47104

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Overview

Product name	Anti-VDAC2 antibody
Description	Rabbit polyclonal to VDAC2
Host species	Rabbit
Specificity	This antibody also reconginizes VDAC3 with which its sequence is 76% homologous.
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Cow, Cat, Dog, Human, Chimpanzee, Zebrafish Predicted to work with: Mouse, Rat, Rabbit, Chicken, Turkey, Pig 
Immunogen	Synthetic peptide: KKSGKIKSSYKRE , corresponding to internal sequence amino acids 120-132 of Human VDAC2 Run BLAST with Run BLAST with
Positive control	Human brain cell lysate.

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 long term.
Storage buffer	Preservative: 0.05% Sodium Azide Constituents: 0.05% BSA, PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab47104** in the following tested applications.

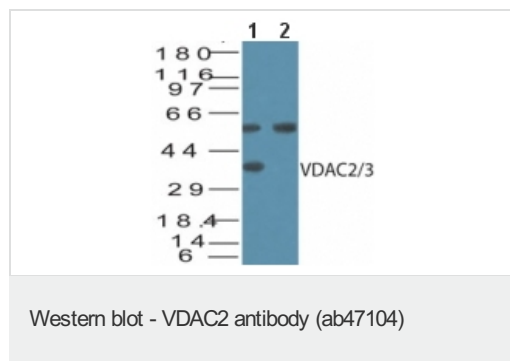
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration. PubMed: 22114330
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 32 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules. The channel adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective.
Tissue specificity	Expressed in all tissues examined.
Sequence similarities	Belongs to the eukaryotic mitochondrial porin family.
Domain	Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands.
Cellular localization	Mitochondrion outer membrane.

Images



All lanes : Anti-VDAC2 antibody (ab47104)
at 2 µg/ml

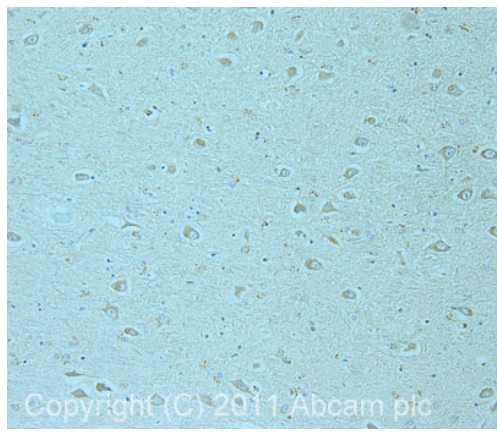
Lane 1 : Human brain cell lysate with no immunizing peptide

Lane 2 : Human brain cell lysate with immunizing peptide

Predicted band size: 32 kDa

Observed band size: 38 kDa

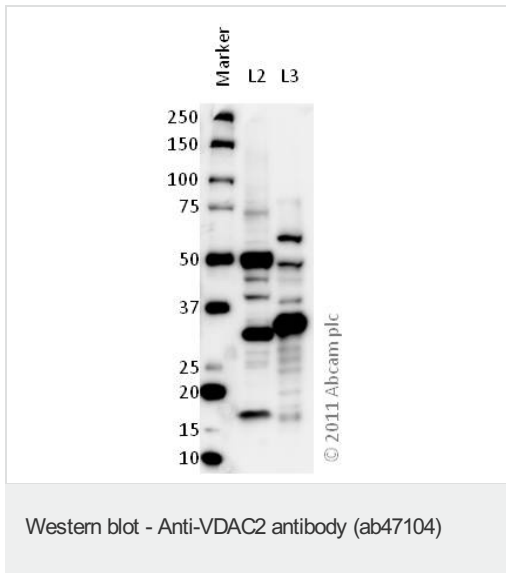
The approximately 55 kD band is not blocked by the immunizing peptide and is believed to result from non-specific cross-reaction.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - VDAC2 antibody (ab47104)

IHC image of ab47104 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab47104, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



All lanes : Anti-VDAC2 antibody (ab47104)
at 2 µg/ml

Lane 1 : Marker

Lane 2 : Zebrafish brain homogenate at 20 µg

Lane 3 : Human heart mitochondrial extract at 20 µg

Secondary

All lanes : Goat polyclonal to Rabbit IgG – H&L – Pre-Adsorbed (HRP) at 1/6000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 32 kDa

Observed band size: 30 kDa

Exposure time: 5 minutes

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