


Product datasheet

Anti-VDAC2 antibody ab47104

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Overview

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

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.05% Sodium Azide Constituents: 0.05% BSA, PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

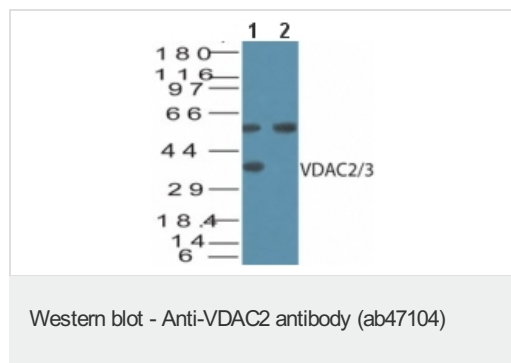
Our [Abpromise guarantee](#) covers the use of **ab47104** in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

<b>Function</b>	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.
<b>Tissue specificity</b>	Expressed in all tissues examined.
<b>Sequence similarities</b>	Belongs to the eukaryotic mitochondrial porin family.
<b>Domain</b>	Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands.
<b>Cellular localization</b>	Mitochondrion outer membrane.

## Images



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

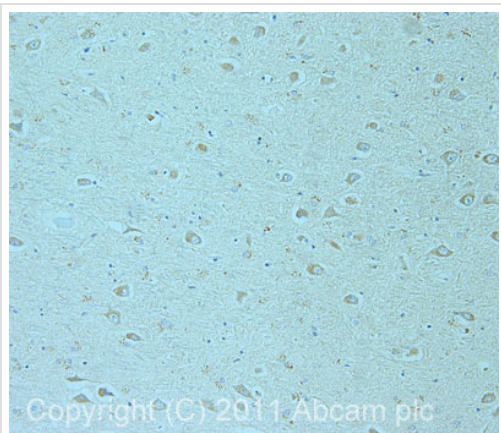
**Lane 1 :** Human brain cell lysate with no immunizing peptide

**Lane 2 :** Human brain cell lysate with immunizing peptide

**Predicted band size:** 32 kDa

**Observed band size:** 38 kDa

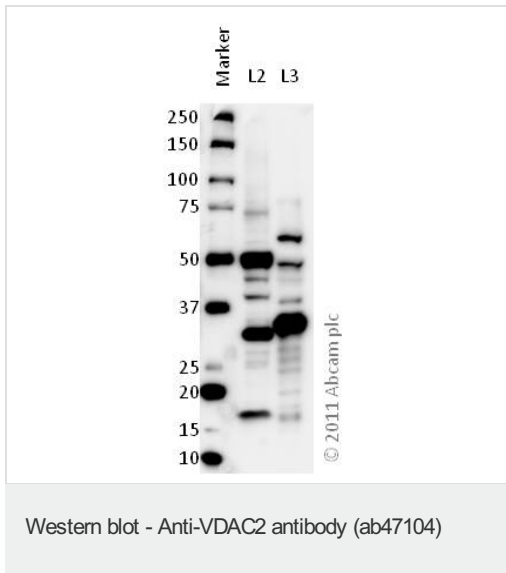
The approximately 55 kD band is not blocked by the immunizing peptide and is believed to result from non-specific cross-reaction.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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