

Datasheet for ABIN2776153  
**anti-VDAC1 antibody (C-Term)**



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## Overview

Quantity:	100 µL
Target:	VDAC1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Rabbit, Cow, Dog, Guinea Pig, Horse, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VDAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human VDAC1
Sequence:	SAKVNNSSLI GLGYTQTLKP GIKLTL SALL DGKNVNAGGH KLGLGLEFQA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against VDAC1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

## Target Details

Target:	VDAC1
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## Target Details

Alternative Name:	VDAC1 ( <a href="#">VDAC1 Products</a> )
Background:	<p>The voltage-dependent anion-selective channel 1 (VDAC1) functions as a channel in membranous structures for the outer mitochondrial membrane, the cell membrane, endosomes, caveolae, the sarcoplasmic reticulum, synaptosomes, and post-synaptic density fraction. A major function of VDAC1 in the plasma membrane is that of a NADH(-ferricyanide) reductase that may be involved in the maintenance of cellular redox homeostasis.</p> <p>Alias Symbols: PORIN, VDAC-1</p> <p>Protein Interaction Partner: UBC, KLHL40, SPRTN, MDM2, ADRB2, ASB14, ASB17, PARK2, BAG3, env, VCAM1, HK1, ATF2, FMNL1, TUBA1B, MDC1, CAV1, Htt, SFXN3, SUGP1, UBAP2, UFM1, ACAD9, MGAT4B, ACAA2, ZMPSTE24, VAPA, ALDH5A1, SF1, VDAC3, VDAC2, UBA52, TIAL1, FLOT2, CDK2, SIRT7, SUMO4, MAPK3,</p> <p>Protein Size: 283</p>
Molecular Weight:	31 kDa
Gene ID:	7416
NCBI Accession:	<a href="#">NM_003374</a> , <a href="#">NP_003365</a>
UniProt:	<a href="#">Q5FVE7</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 283 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.

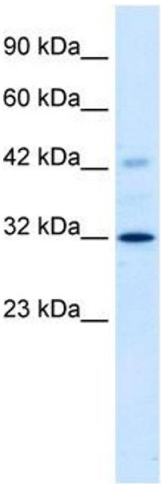
Handling

Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

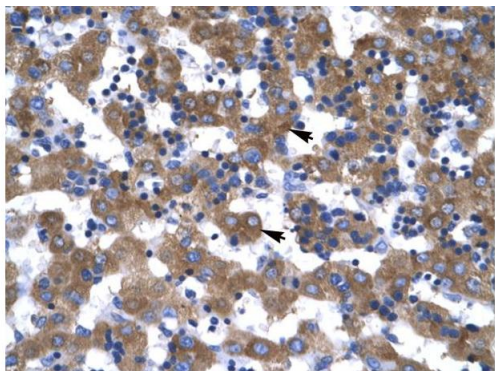
Product cited in:	<p>Rousset, Nguyen, Grange, Morel, Lardy: "Heme oxygenase-1 regulates matrix metalloproteinase MMP-1 secretion and chondrocyte cell death via Nox4 NADPH oxidase activity in chondrocytes." in: <b>PLoS ONE</b>, Vol. 8, Issue 6, pp. e66478, (2013) (<a href="#">PubMed</a>).</p> <p>Arduíno, Esteves, Cortes, Silva, Patel, Grazina, Swerdlow, Oliveira, Cardoso: "Mitochondrial metabolism in Parkinson's disease impairs quality control autophagy by hampering microtubule-dependent traffic." in: <b>Human molecular genetics</b>, Vol. 21, Issue 21, pp. 4680-702, (2012) (<a href="#">PubMed</a>).</p> <p>Chen, Martin, Maya-Mendoza, Tang, Lovri?, Sims, Jackson: "Reduced expression of lamin A/C results in modified cell signaling and metabolism coupled with changes in expression of structural proteins." in: <b>Journal of proteome research</b>, Vol. 8, Issue 11, pp. 5196-211, (2009) (<a href="#">PubMed</a>).</p>
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Images

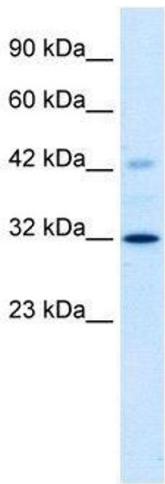


**Western Blotting**

**Image 1.** WB Suggested Anti-VDAC1 Antibody Titration: 1.25ug/ml ELISA Titer: 1:312500 Positive Control: HepG2 cell lysate VDAC1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



Rabbit Anti-VDAC1 Antibody  
Catalog Number: ARP35122  
Lot Number: QC4487  
Paraffin Embedded Tissue: Human Liver  
Cells with Positive label: Hepatocytes (Indicated with Arrows)  
Antibody Concentration: 4.0-8.0 µg/ml  
Magnification: 400X



### Immunohistochemistry

**Image 2.** Rabbit Anti-VDAC1 Antibody Paraffin Embedded  
Tissue: Human Liver Cellular Data: Hepatocytes Antibody  
Concentration: 4.0-8.0 ug/ml Magnification: 400X

### Western Blotting

**Image 3.** WB Suggested Anti-VDAC1  
Antibody Titration: 1.25 µg/mL ELISA Titer: 1:312500  
Positive Control: HepG2 cell lysate  
VDAC1 is strongly supported by BioGPS gene expression  
data to be expressed in Human HepG2 cells

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2776153.