# ANTIBODIES ONLINE

# Datasheet for ABIN3043959 anti-VDAC1 antibody (Middle Region)

4 Images

1 Publication



### Overview

Quantity:	100 µg
Target:	VDAC1
Binding Specificity:	AA 154-181, Middle Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VDAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Voltage-dependent anion-selective channel protein 1(VDAC1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human VDAC/Porin (154-181aa QMNFETAKSRVTQSNFAVGYKTDEFQLH), different from the related mouse and rat sequences by one amino acid.
Sequence:	QMNFETAKSR VTQSNFAVGY KTDEFQLH
Isotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Voltage-dependent anion-selective channel protein 1(VDAC1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: voltage-dependent anion channel 1

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### Product Details

Protein Name: Voltage-dependent anion-selective channel protein 1

Purification:

Immunogen affinity purified.

### Target Details

Target:	VDAC1
Alternative Name:	VDAC1 (VDAC1 Products)
Background:	The voltage-dependent anion channel (VDAC) of the outer mitochondrial membrane is a small,
	abundant outer membrane pore-forming protein found in the outer membranes of all eukaryotic
	mitochondria. The VDAC protein is thought to form the major pathway for movement of
	adenine nucleotides through the outer membrane and to be the mitochondrial binding site for
	hexokinase and glycerol kinase. At low transmembrane voltage, VDAC is open for anions such
	as phosphate, chloride, and adenine nucleotides. At higher transmembrane voltage, VDAC
	functions as a selective channel for cations and uncharged molecules. These features make
	VDAC likely to play a role in mitochondrial energy metabolism. Huizing et al. studied by
	Northern and Western blot analyses the human tissue distribution of mitochondrial
	transmembrane metabolite carriers. They found that VDAC1 mRNA has a ubiquitous
	distribution, with most pronounced expression in heart, liver, and skeletal muscle, whereas the
	VDAC2 isoform appears to be expressed only in the heart.
	Synonyms: N2441 antibody OMP2 antibody POR1 antibody hVDAC1 antibody MGC111064
	antibody Mitochondrial Porin antibody Outer mitochondrial membrane protein porin 1
	antibody Plasmalemmal porin antibody Porin 31 HL antibody Porin 31HL antibody Porin 31HM
	antibody VDAC 1 antibody VDAC antibody VDAC-1 antibody VDAC1 antibody VDAC1_HUMAN
	antibody Voltage dependent anion channel 1 antibody Voltage dependent anion selective
	channel protein 1 antibody Voltage-dependent anion-selective channel protein 1
	antibody YNL055C antibody YNL2441C antibody
Gene ID:	7416
UniProt:	P21796
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 $\mu$ g/mL, Tested Species: Human, Mouse, Rat, The detection limit for
	VDAC/Porin is approximately 0.1 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by

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## Application Details

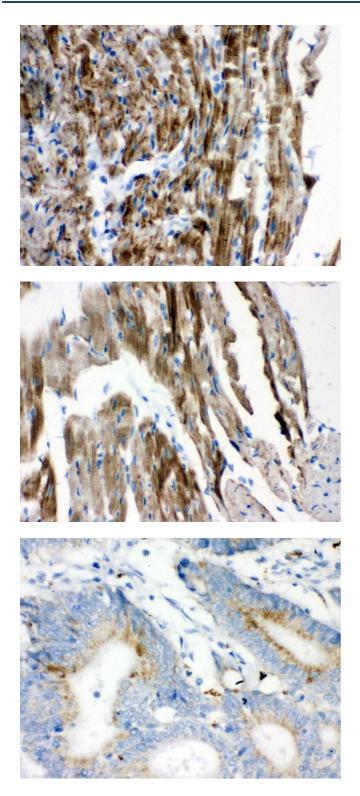
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the
	staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

# Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
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 freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

### Publications

Product cited in:Shen, Chen, Zhang, Du, Bai, Zhang, Jiang, Li, Wang, Zhu: "MicroRNA-27b RegulatesMitochondria Biogenesis in Myocytes." in: PLoS ONE, Vol. 11, Issue 2, pp. e0148532, (2016) (<br/>PubMed).



### Immunohistochemistry

**Image 1.** Anti-VDAC Picoband antibody, IHC(P) IHC(P): Rat Cardiac Muscle Tissue

### Immunohistochemistry

**Image 2.** Anti-VDAC Picoband antibody, IHC(P) IHC(P): Mouse Cardiac Muscle Tissue

#### Immunohistochemistry

**Image 3.** Anti-VDAC Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043959.

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