

ARG44010 anti-VDAC1 / Porin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes VDAC1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	VDAC1
Species	Human
Immunogen	Human VDAC1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	VDAC1; Voltage Dependent Anion Channel 1; PORIN; Voltage-Dependent Anion-Selective Channel Protein 1; Outer Mitochondrial Membrane Protein Porin 1; Plasmalemmal Porin; Porin 31HL; Porin 31HM; MGC111064; VDAC-1; Sperm Binding Protein 1a; HVDAC1; VDAC

Application Instructions

Application table	Application	Dilution
	ELISA	0.1-0.5 µg/ml
	FACS	1-3 µg/1x10 ⁶
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.1-0.25 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

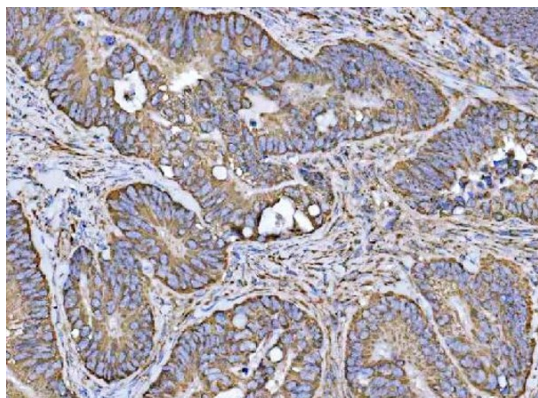
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

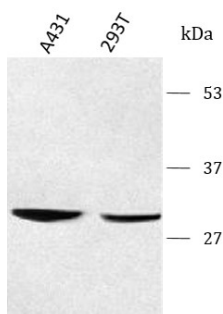
Gene Symbol	VDAC1
Gene Full Name	voltage-dependent anion channel 1
Background	This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Alternate splicing results in multiple transcript variants. Multiple pseudogenes of this gene are found on chromosomes 1, 2 3, 6, 9, 12, X and Y.[provided by RefSeq, Sep 2010]
Function	Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It 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. [UniProt]
Research Area	Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	31 kDa
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation. [UniProt]
Cellular Localization	Cell membrane, Membrane, Mitochondrion, Mitochondrion outer membrane. [UniProt]

Images



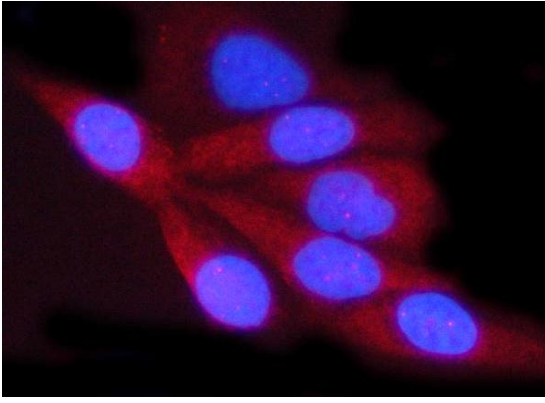
ARG44010 anti-VDAC1 / Porin antibody IHC-P image

Immunohistochemistry: Human colorectal adenocarcinoma stained with ARG44010 anti-VDAC1 / Porin antibody at 2 µg/ml dilution.



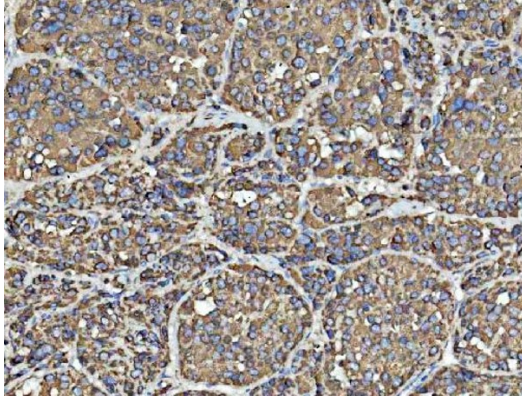
ARG44010 anti-VDAC1 / Porin antibody WB image

Western blot: A431 and 293T stained with ARG44010 anti-VDAC1 / Porin antibody at 0.5 µg/mL dilution.



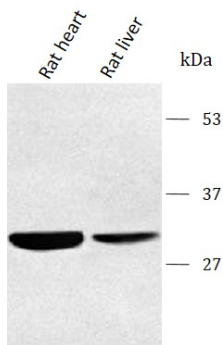
ARG44010 anti-VDAC1 / Porin antibody ICC/IF image

Immunofluorescence: HELA cells stained with ARG44010 anti-VDAC1 / Porin antibody at 5 $\mu\text{g/ml}$ dilution.



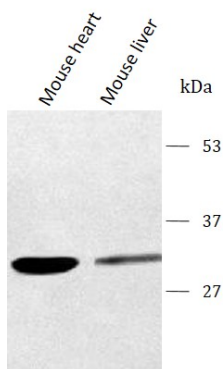
ARG44010 anti-VDAC1 / Porin antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG44010 anti-VDAC1 / Porin antibody at 2 $\mu\text{g/ml}$ dilution.



ARG44010 anti-VDAC1 / Porin antibody WB image

Western blot: Rat heart and Rat liver stained with ARG44010 anti-VDAC1 / Porin antibody at 0.5 $\mu\text{g/mL}$ dilution.



ARG44010 anti-VDAC1 / Porin antibody WB image

Western blot: Mouse heart and Mouse liver stained with ARG44010 anti-VDAC1 / Porin antibody at 0.5 $\mu\text{g/mL}$ dilution.