



VDAC1 Rabbit mAb

Catalog No	YP-rAb-17947
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	VDAC1
Protein Name	Voltage-dependent anion-selective channel protein 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	VDAC1 ; VDAC ; Voltage-dependent anion-selective channel protein 1 ; VDAC-1 ; hVDAC1 ; Outer mitochondrial membrane protein porin 1 ; Plasmalemmal porin ; Porin 31HL ; Porin 31HM
Observed Band	33kD
Calculated Molecular Weight	31kD
Cell Pathway	Cytoplasm, Membrane
Tissue Specificity	Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in heart, liver and skeletal muscle (PubMed:8420959).
Function	Domain:Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands. The helical N-terminus folds back into the pore opening and plays a role in voltage-gated channel activity.,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. May participate in the formation of the permeability transition pore complex responsible for the release of mitochondrial products that triggers apoptosis.,similarity:Belongs to the

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eukaryotic mitochondrial porin family, subunit: Interacts with hexokinases (By similarity). Interacts with BCL2L1. Interacts with influenza A virus PB1-F2 protein., tissue specificity: Heart, liver and skeletal muscle.,

Background

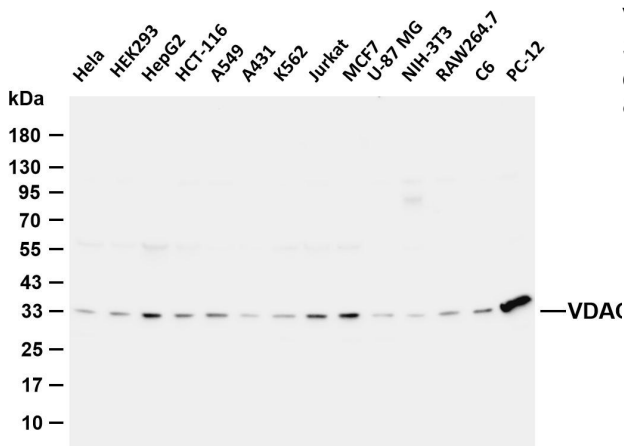
This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels 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],

matters needing attention

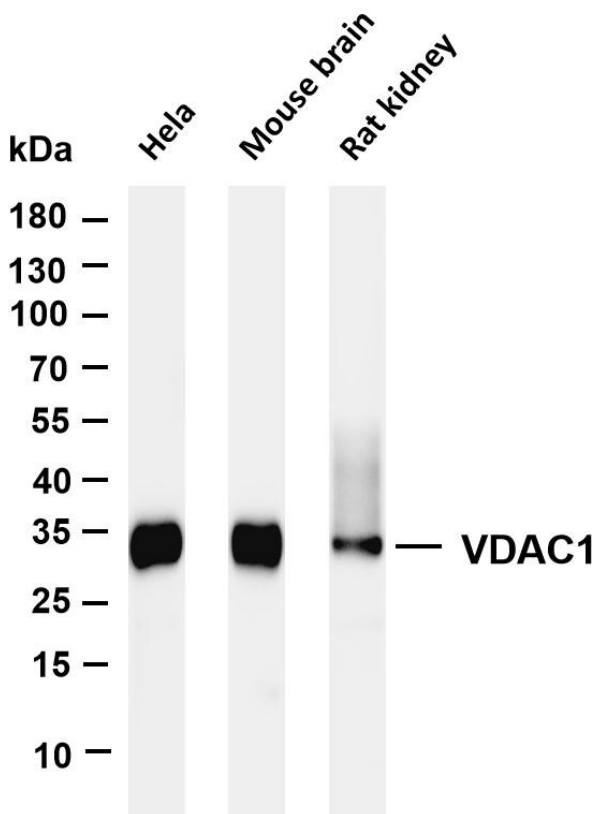
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

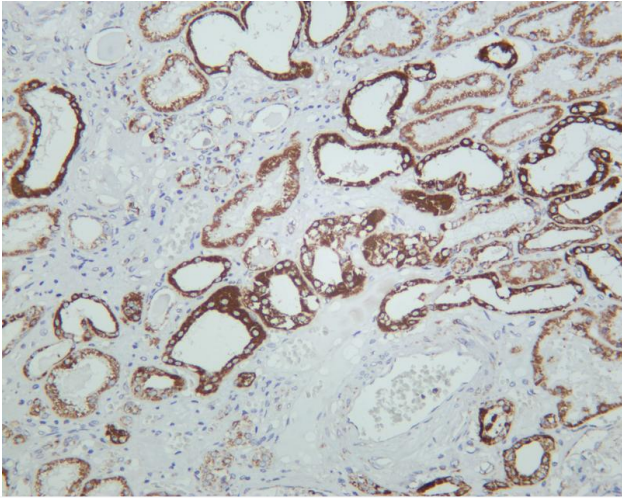


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4 °C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody

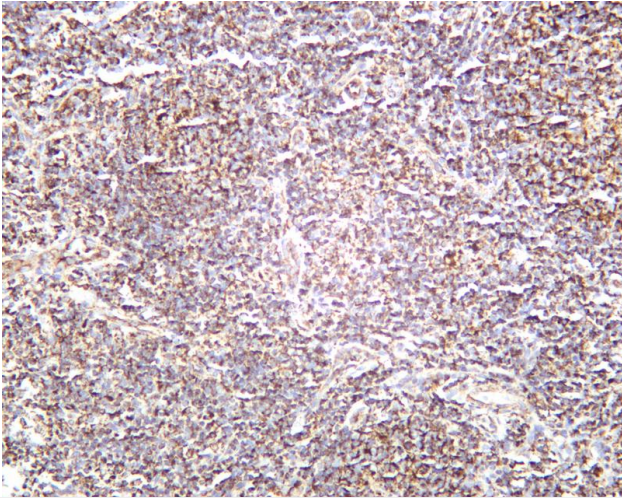


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-VDAC1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Mouse brain Lane 3: Rat kidney Predicted band size: 31kDa Observed band size: 33kDa

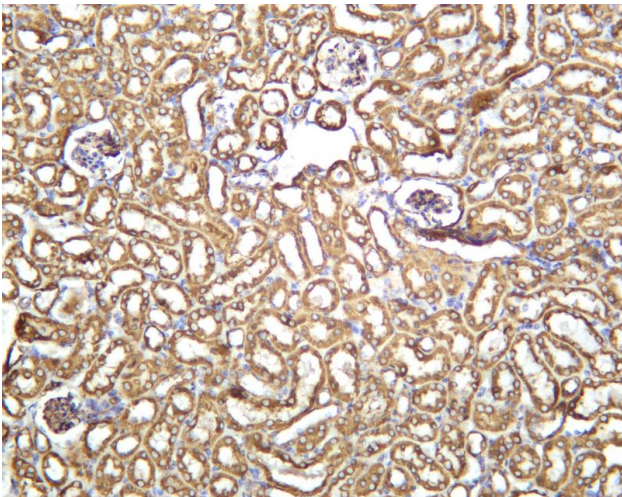




Human kidney was stained with anti-VDAC1 rabbit antibody



Human tonsil was stained with anti-VDAC1 rabbit antibody



Mouse kidney was stained with anti-VDAC1 rabbit antibody

