

For Research Use Only

VDAC1/Porin Recombinant antibody, PBS Only



Catalog Number: 81538-1-PBS

Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
81538-1-PBS	NM_003374	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
1mg/ml	7416	2F4
Source:	UNIPROT ID:	
Rabbit	P21796	
Isotype:	Full Name:	
IgG	voltage-dependent anion channel 1	
	Calculated MW:	
	31 kDa	
	Observed MW:	
	31 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

VDAC1, also named as VDAC, porin 31HM, porin 31HL and plasmalemmal porin, belongs to the eukaryotic mitochondrial porin family. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV, to form a channel through the mitochondrial outer membrane and also the plasma membrane. Unlike other membrane transport proteins, porins are large enough to allow passive diffusion. Studies have shown that VDAC1 is subject to both phosphorylation and acetylation (PMID: 23233904). The apparent molecular weight of VDAC1 is 30-37 kDa (PMID: 14573604; 23754752; 25681439). Hypoxic conditions were found to trigger cleavage of the VDAC1 C-terminal to yield a 26-kDa truncated but active form (PMID: 22389449; 23233904). This antibody is specific to VDAC1.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

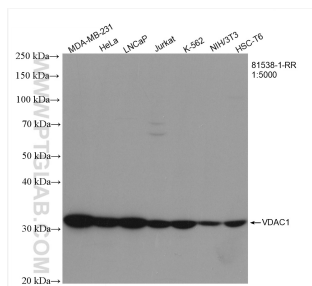
T: 4006900926

E: Proteintech-CN@ptglab.com

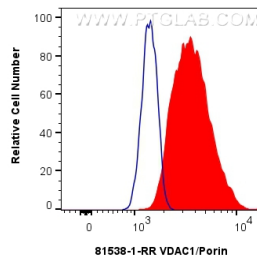
W: ptgcn.com

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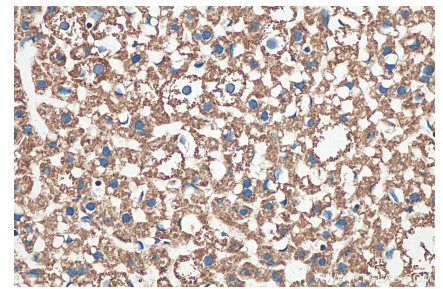
Selected Validation Data



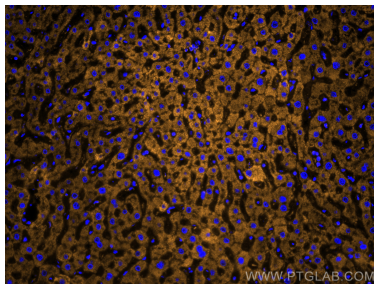
Various lysates were subjected to SDS PAGE followed by western blot with 81538-1-RR (VDAC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81538-1-PBS in a different storage buffer formulation.



1×10^6 HepG2 cells were intracellularly stained with 0.8 μ g VDAC1/Porin Recombinant antibody (81538-1-RR, Clone:2F4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 81538-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 81538-1-RR (VDAC1/Porin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81538-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using VDAC1/Porin antibody (81538-1-RR, Clone: 2F4) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81538-1-PBS in a different storage buffer formulation.