For Research Use Only

VDAC1/Porin Recombinant antibody

Catalog Number:81538-1-RR 3 Publications

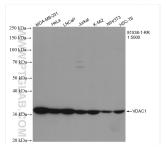


Basic Information	Catalog Number: 81538-1-RR	GenBank Accession Number: NM_003374		Purification Method: Protein A purification				
	Concentration: 1000 ug/ml	Genel D (NCBI): 7416		CloneNo.: 2F4				
	Source: Rabbit	UNIPROT ID: P21796 Full Name: voltage-dependent anion channel 1 Calculated MW: 31 kDa		Recommended Dilutions: WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:50-1:500				
	Isotype: IgG							
						Observed MW: 31 kDa		
					Applications	Tested Applications: WB, IHC, IF-P, FC (Intra), ELISA	Positive Controls:	
	VVD. MDA-IVI		IB-231 cells, HeLa cells, LNCaP cells, Jurk cells, NIH/3T3 cells, HSC-T6 cells					
WB, IP IHC : mouse		IHC : mouse l	iver tissue,					
Species Specificity: IF-P : human liver tissue,			liver tissue,					
Cited Species:								
mouse, rat								
Note-IHC: suggested antige TE buffer pH 9.0; (*) Altern retrieval may be performed buffer pH 6.0	atively, antigen							
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). Th apparent molecular weight of VDAC1 is 30-37 kDa (PMID: 14573604; 23754752; 25681439). Hypoxic conditions werfound 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.							
	Author	Pubmed ID Jo	ournal	Application				
Notable Publications	Addiol		Nutr Biochem	WB				
Notable Publications		36587874 J I						
Notable Publications	Jingjing Liu		nytother Res	WB,IP				
Notable Publications	Jingjing Liu Juanlan Xiao	39916296 Pł	nytother Res t J Nanomedicine	WB,IP WB				

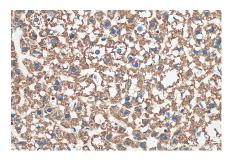
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

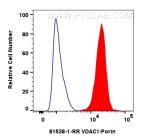
Selected Validation Data



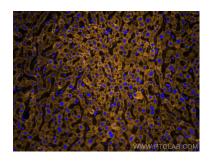
Various lysates were subjected to SDS PAGE followed by western blot with 81538-1-RR (VDAC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 81538-1-RR (VDAC 1/Porin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug VDAC 1/Porin Recombinant antibody (81538-1-RR, Clone:2F4) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using VDAC 1/Porin antibody (81538-1-RR, Clone: 2F4) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).