For Research Use Only

VDAC1/Porin Polyclonal antibody

Catalog Number:55259-1-AP

Featured Product 181 Publications

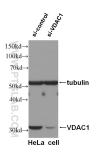


	55259-1-AP Concentration: 1300 ug/ml Source: Rabbit	NM_003374 Genel D (NC 7416 UNIPROT I D	BI):	Antigen affinity purification Recommended Dilutions: WB 1:1000-1:6000	
	1300 ug/ml Source:	7416			
	Rabbit		t	IHC 1:50-1:500	
	Adobit	P21796			
	Isotype:	Isotype: Full Name:		IF-Fro 1:50-1:500	
	IgG	voltage-dep	voltage-dependent anion channel 1		
	Calculated M 31 kDa		W:		
		Observed M 31 kDa	d MW:		
Applications	Tested Applications:		Positive Con	Positive Controls:	
	WB, IHC, IF-P, IF-Fro, FC ((inua), ELISA		4.7 cells, rat liver tissue, HepG2 cells,	
	Cited Applications: WB, IHC, IF, CoIP, PLA			human skeletal muscle tissue, HEK-293 cells, HeLa cells, mouse liver tissue, A431 cells, mouse heart tissue, ROS1728 cells, mouse brain tissue, rat brain tissue, rat heart tissue, NIH/3T3 cells	
	Species Specificity:		•		
	human, mouse, rat		tissue, rat he		
	Cited Species:	Cited Species:		IHC : human heart tissue, human liver tissue	
	human, mouse, rat, pig, canine, monkey, chicken,		IF-P : human	IF-P : human liver cancer tissue,	
	bovine, hamster, duck	bovine, hamster, duck		-Fro : mouse liver tissue,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
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 we found to trigger cleavage of the VDAC1 C-terminal to yield a 26-kDa truncated but active form (PMID: 22289449; 23233904). This antibody is specific to VDAC1.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Jing Sun	34650437	Front Pharmacol	WB	
	Tianying Pan	29163791	Oncotarget	WB	
	Lian Xue	36186902	J Cancer	WB,IF	
		50100902	Jeaneer		
otorage	Storage: Store at -20°C. Stable for Storage Buffer:	one year after shipment.			

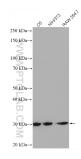
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

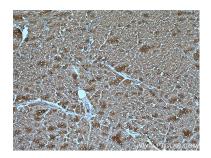
Selected Validation Data



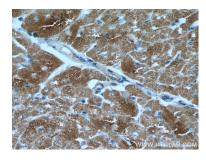
WB result of VDAC1 antibody (55259-1-AP, 1:2000) with si-Control and si-VDAC1 transfected HeLa cells.



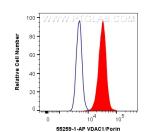
Various lysates were subjected to SDS PAGE followed by western blot with 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



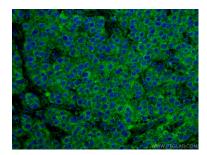
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



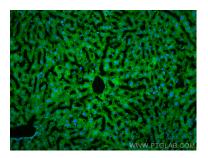
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human VDAC1/Porin (55259-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit 1gG control Rabbit PolyAb (3000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using VDAC1/Porin antibody (55259-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse liver tissue using VDAC1/Porin antibody (55259-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).