For Research Use Only

VDAC1/Porin Polyclonal antibody

Catalog Number: 55259-1-AP

Featured Product

124 Publications

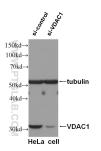


Basic Information	Catalog Number: GenBank Accession Number: 55259-1-AP NM_003374		on Number:	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:50-1:500							
	Size: 150ul, Concentration: 600 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI):									
					Full Name: voltage-dependent anion channel 1 Calculated MW: 31 kDa						
								Observed MW: 31 kDa			
								Applications	Tested Applications: WB, IF, FC, IHC, ELISA		Positive Cont
				WB : RAW 264.7 cells, rat liver tissue, HepG2 cells, human skeletal muscle tissue, HEK-293 cells, HeLa cells. mouse liver tissue. A431 cells. mouse heart							
		Cited Applications: WB, IF, FC, PLA, IHC, CoIP									
		Species Specificity:		•	tissue, ROS1728 cells, mouse brain tissue, rat brain						
		Species Specificity.		tissue, rat hea	neart tissue, NIH/3T3 cells						
Cited Species:		IHC : human heart tissue, human liver tissue									
human, chicken, rat, mouse, monkey, hamster, pig, IF : human lit canine, bovine		rer cancer tissue,									
	<i>TE buffer pH 9.0; (*) Alternatively, antigen</i> retrieval may be performed with citrate <i>buffer pH 6.0</i>										
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.										
Notable Publications	Author Pul	bmed ID Jo	urnal	Application							
	Jing Sun 340	650437 Fr	ont Pharmacol	WB							
			ncotarget	WB							
	Lian Xue 36	186902 J (Cancer	WB,IF							
	Charles and										
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50										
	Aliquoting is unnecessary for -20°C	•••									
*** 20ul sizes contain 0.1% BSA	,	- 0 -									
	ta for this product please contact:			exclusively available under Proteintech							

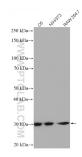
in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

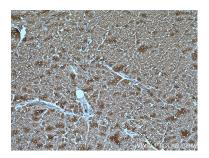
Selected Validation Data



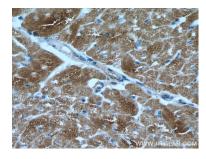
WB result of VDAC1 antibody (55259-1-AP, 1:2000) with si-Control and si-VDAC1 transfected HeLa cells.



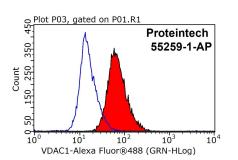
Various lysates were subjected to SDS PAGE followed by western blot with 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



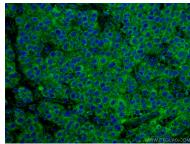
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ HepG2 cells were stained with 0.2ug VDAC 1/Porin antibody (55259-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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