For Research Use Only

VDAC1/Porin Polyclonal antibody

55259-1-AP

Catalog Number: 55259-1-AP

Featured Product

118 Publications

NM 003374



Basic Information

Catalog Number: GenBank Accession Number:

GeneID (NCBI):

150ul, Concentration: 600 µg/ml by 7416 Nanodrop:

Source: voltage-dependent anion channel 1

Rabbit Calculated MW:

Isotype: 31 kDa IgG Observed MW:

31 kDa

Applications

Tested Applications:

FC, IF, IHC, WB, ELISA **Cited Applications:**

CoIP, FC, IF, IHC, PLA, WB

Species Specificity: human, mouse, rat

Cited Species:

human, chicken, rat, mouse, monkey, hamster, pig,

canine, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

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 tissue, ROS1728 cells, mouse brain tissue, rat brain tissue, rat heart tissue, NIH/3T3 cells

Purification Method:

WB 1:1000-1:6000 IHC 1:50-1:500

IF 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

IHC: human heart tissue, human liver tissue

IF: human liver cancer tissue.

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 acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904). The acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904). The acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904). The acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904). The acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904). The acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904) are the subject to both phosphorylation and acetylation (PMID: 23233904) are the subject to both phosphorylation (PMID: 2apparent 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	Pubmed ID	Journal	Application
Jing Sun	34650437	Front Pharmacol	WB
Tianying Pan	29163791	Oncotarget	WB
Lian Xue	36186902	J Cancer	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

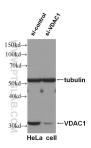
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

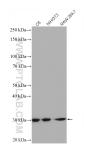
E: proteintech@ptglab.com W: ptglab.com

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

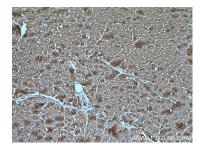
Selected Validation Data



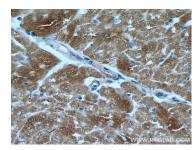
WB result of VDAC1 antibody (55259-1-AP, 1:2000) with si-Control and si-VDAC1 transfected HeLa cells



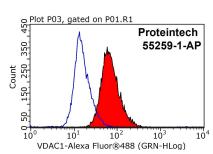
Various lysates were subjected to SDS PAGE followed by western blot with 55259-1-AP (VDAC1/Porin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



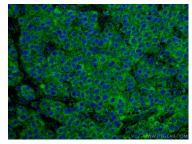
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 55259-1-AP (VDAC 1/Porin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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 488-conjugated 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 Affini Pure Goat Anti-Rabbit 1gG(H+L).