

For Research Use Only

VDAC1/Porin Monoclonal antibody



Catalog Number: 66345-1-Ig **6 Publications**

Basic Information

Catalog Number: 66345-1-Ig	GenBank Accession Number: NM_003374	Purification Method: Protein A purification
Size: 150ul , Concentration: 427 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7416	CloneNo.: 1E2C7
Source: Mouse	Full Name: voltage-dependent anion channel 1	Recommended Dilutions: WB 1:2000-1:20000 IHC 1:500-1:2000
Isotype: IgG3	Calculated MW: 31 kDa	
	Observed MW: 35-37 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : RAW 264.7 cells, HEK-293 cells, Jurkat cells, K-562 cells, C6 cells, ROS1728 cells, NIH/3T3 cells, 3T3-L1 cells IHC : human heart tissue, mouse skeletal muscle tissue
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	
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). 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhiguo Li	30458278	Free Radic Biol Med	WB
Yanqing Li	33802591	Int J Mol Sci	WB
Xuexian Fang	30692261	Proc Natl Acad Sci U S A	WB

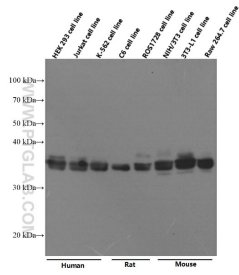
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

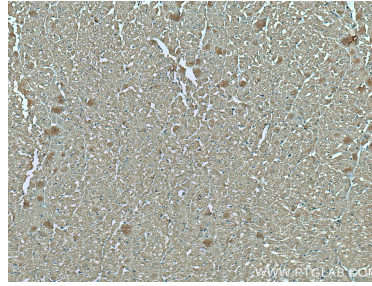
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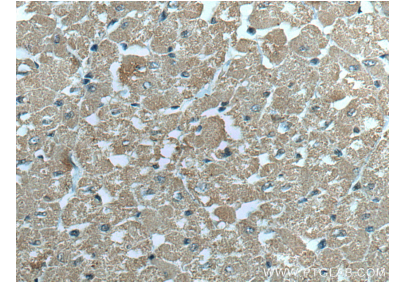
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66345-1-Ig (VDAC1/Porin antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66345-1-Ig (VDAC1/Porin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66345-1-Ig (VDAC1/Porin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).