

For Research Use Only

ANT1/2 Polyclonal antibody

Catalog Number: 17796-1-AP **6 Publications**



Basic Information

Catalog Number: 17796-1-AP	GenBank Accession Number: BC056160	Purification Method: Antigen affinity purification
Size: 150UL, Concentration: 650 µg/ml by Nanodrop and 453 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 292	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	Full Name: solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5	
Isotype: IgG	Calculated MW: 298 aa, 33 kDa	
Immunogen Catalog Number: AG11956	Observed MW: 30-32 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse brain tissue, IHC : human kidney tissue, human liver cancer tissue, mouse heart tissue
Cited Applications: IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	
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

Adenine nucleotide translocators (ANTs) are mitochondrial carrier proteins that exchange ATP and ADP between the cytoplasm and the mitochondrial matrix. Four isoforms of ANT were identified: ANT1 (encoded by SLC25A4) is highly expressed in different tissues; ANT2 (encoded by SLC25A5) is predominantly expressed in proliferating, regenerating, or undifferentiated cells; ANT3 is ubiquitously expressed; ANT4 is mainly expressed in testis and germ cells. This antibody recognizes both of ANT1 and ANT2. The predicted molecular weight of ANT1/2 protein is around 32 kDa. While 60 kDa protein can also be observed, which has been proposed as the dimer of ANT1/2. (22423112)

Notable Publications

Author	Pubmed ID	Journal	Application
Chul-Hee Lee	30225759	Mol Imaging Biol	IHC
Kathleen C Lundberg	25351201	Mol Cell Proteomics	IHC
Foteini Violitzi	31550165	J Proteome Res	WB

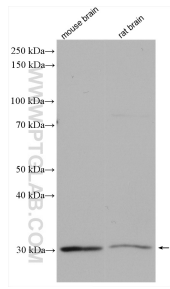
Storage

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

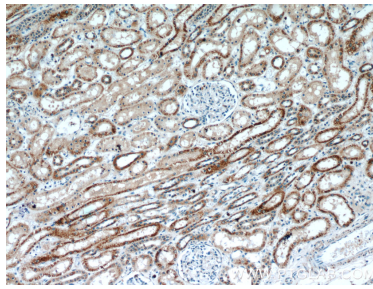
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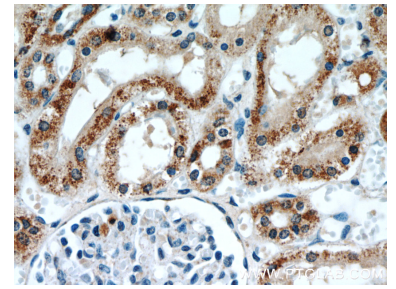
Selected Validation Data



Mouse brain and rat brain tissues were subjected to SDS PAGE followed by western blot with 17796-1-AP (ANT1/2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 17796-1-AP (ANT1/2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 17796-1-AP (ANT1/2 Antibody) at dilution of 1:50.