

For Research Use Only

ANT1/2 Polyclonal ANTIBODY



Catalog Number: 17796-1-AP

2 Publications

Basic Information

Catalog Number:
17796-1-AP

Size:
68 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG11956

GenBank Accession Number:
BC056160

GeneID (NCBI):
292

Full Name:
solute carrier family 25 (mitochondrial carrier,
adenine nucleotide translocator), member 5

Calculated MW:
298aa, 33 kDa

Observed MW:
30-32 kDa

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
human,mouse,rat

Cited Species:
human, mouse

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

Positive Controls:

WB : mouse brain tissue;

IHC : human kidney tissue;

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
Maria Eirini Terzenidou	28376086	PLoS Genet	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

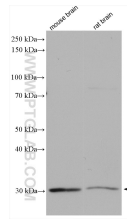
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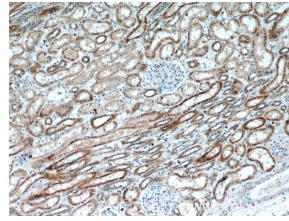
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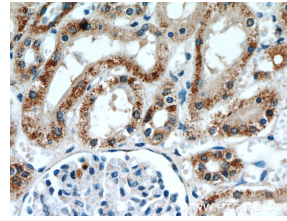
Selected Validation Data



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



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



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