

For Research Use Only

# ANT1/2 Polyclonal antibody

Catalog Number: 15997-1-AP **4 Publications**



## Basic Information

**Catalog Number:**

15997-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7787

**GenBank Accession Number:**

BC008664

**GeneID (NCBI):**

291

**UNIPROT ID:**

P12235

**Full Name:**

solute carrier family 25  
(mitochondrial carrier; adenine  
nucleotide translocator), member 4

**Calculated MW:**

33 kDa

**Observed MW:**

33 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, ColP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, pig

**Positive Controls:**

WB: human heart tissue, MCF-7 cells, mouse skeletal  
muscle tissue, mouse brain tissue

IP: mouse heart 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaomin Zhao	35863430	J Biol Chem	WB
Xingzhao Ji	37182101	iScience	WB, ColP
Ji Geng	37040696	Dev Cell	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

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

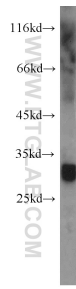
T: 4006900926

E: Proteintech-CN@ptglab.com

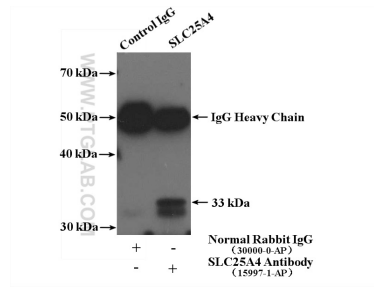
W: ptgcn.com

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

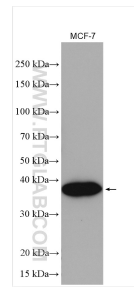
## Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 15997-1-AP (ANT1/2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-ANT1/2 (IP:15997-1-AP, 4ug; Detection:15997-1-AP 1:500) with mouse heart tissue lysate 4000ug.



MCF-7 cells were subjected to SDS PAGE followed by western blot with 15997-1-AP (ANT1/2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.