

# SLC25A18 Rabbit pAb

SLC25A18 Rabbit pAb

Catalog # AP57931

## Product Information

---

|                                |                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                 |
| <b>Primary Accession</b>       | <a href="#">Q9H1K4</a>                                                                                                                                                                                               |
| <b>Reactivity</b>              | Rat, Human, Mouse                                                                                                                                                                                                    |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                               |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                           |
| <b>Calculated MW</b>           | 33849                                                                                                                                                                                                                |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                               |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human SLC25A18                                                                                                                                                         |
| <b>Epitope Specificity</b>     | 1-100/315                                                                                                                                                                                                            |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                  |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                       |
| <b>Buffer</b>                  | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.                                                                                                                                              |
| <b>SUBCELLULAR LOCATION</b>    | Mitochondrion inner membrane; Multi-pass membrane protein.                                                                                                                                                           |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                            |
| <b>Background Descriptions</b> | SLC25A18 belongs to the mitochondrial carrier family and contains three Solcar repeats. It is involved in the transport of glutamate across the inner mitochondrial membrane. Glutamate is co-transported with H(+). |

## Additional Information

---

|                    |                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 83733                                                                                                                                                                                           |
| <b>Other Names</b> | Mitochondrial glutamate carrier 2, GC-2, Glutamate/H(+) symporter 2, Solute carrier family 25 member 18, SLC25A18 ( <a href="#">HGNC:10988</a> ), GC2                                           |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug /Test                                                                                                                   |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

---

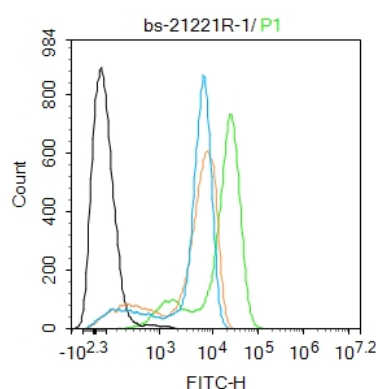
|                 |                                         |
|-----------------|-----------------------------------------|
| <b>Name</b>     | SLC25A18 ( <a href="#">HGNC:10988</a> ) |
| <b>Synonyms</b> | GC2                                     |

|                          |                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>          | Responsible for the transport of glutamate from the cytosol into the mitochondrial matrix with the concomitant import of a proton (symport system). |
| <b>Cellular Location</b> | Mitochondrion inner membrane {ECO:0000250   UniProtKB:Q505J6};<br>Multi-pass membrane protein                                                       |
| <b>Tissue Location</b>   | Expressed in brain, to a lesser extent in testis, and poorly in all the other tissues.                                                              |

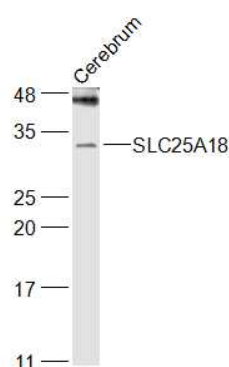
## Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## Images

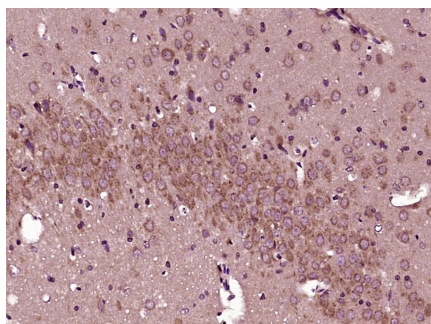


Blank control: THP-1.  
 Primary Antibody (green line): Rabbit Anti-SLC25A18 antibody (AP57931)  
 Dilution: 1  $\mu$ g /10<sup>6</sup> cells;  
 Isotype Control Antibody (orange line): Rabbit IgG .  
 Secondary Antibody : Goat anti-rabbit IgG-FITC  
 Dilution: 1  $\mu$ g /test.  
 Protocol  
 The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST methanol for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature.The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

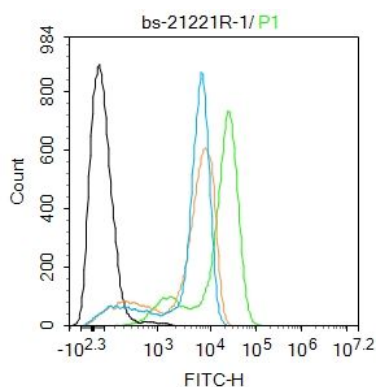


Sample:  
 Cerebrum (Mouse) Lysate at 40  $\mu$ g  
 Primary: Anti-SLC25A18 (AP57931) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 34 kD  
 Observed band size: 34 kD

Paraformaldehyde-fixed, paraffin embedded (Rat brain);  
 Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC25A18) Polyclonal Antibody, Unconjugated (AP57931) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit)



(sp-0023) instructions and DAB staining.



Blank control: THP-1.

Primary Antibody (green line): Rabbit Anti-SLC25A18 antibody (AP57931)

Dilution: 1  $\mu$ g /  $10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 1  $\mu$ g /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.