

**EAAC1 Antibody**  
**EAAC1 Antibody, Clone S180-41**  
**Catalog # ASM10240****Specification**

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**EAAC1 Antibody - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | <b>WB</b>                   |
| Primary Accession | <a href="#">P43005</a>      |
| Other Accession   | <a href="#">NP_004161.4</a> |
| Host              | <b>Mouse</b>                |
| Isotype           | <b>IgG1</b>                 |
| Reactivity        | <b>Human, Rat</b>           |
| Clonality         | <b>Monoclonal</b>           |

**Description**

Mouse Anti-Human EAAC1 Monoclonal IgG1

**Target/Specificity**

Detects ~60kDa.

**Other Names**

Excitatory amino-acid carrier 1 Antibody, excitatory amino acid transporter 3 Antibody, EAAT3 Antibody, Neuronal and epithelial glutamate transporter Antibody, Sodium-dependent glutamate/aspartate transporter 3 Antibody, solute carrier family 1 member 1 and Slc1a1 Antibody

**Immunogen**

Fusion protein amino acids 1-524 (full length) of human EAAC1

**Purification**

Protein G Purified

Storage **-20°C****Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature

**Blue Ice or 4°C****Certificate of Analysis**

5 µg of SMC-406 was sufficient for immunoprecipitation of EAAC1 from 50 µg of rat brain lysate.

**Cellular Localization**

Membrane

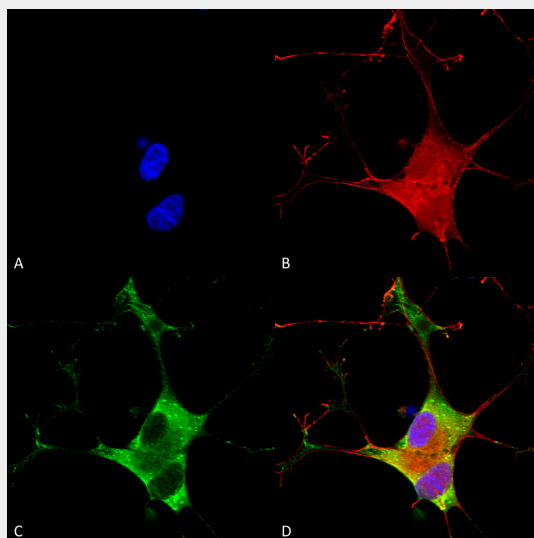
**EAAC1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

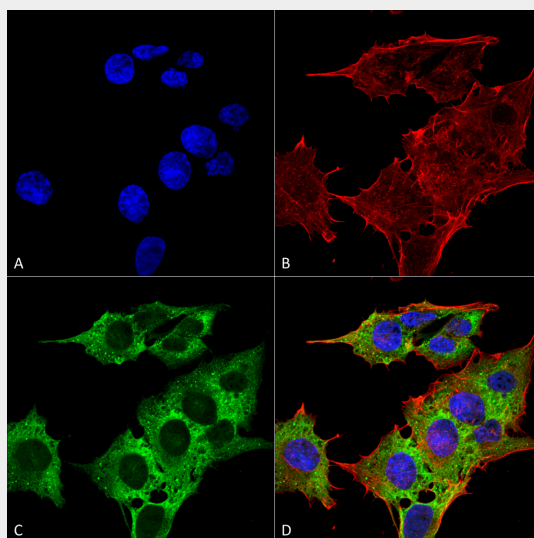
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## EAAC1 Antibody - Images

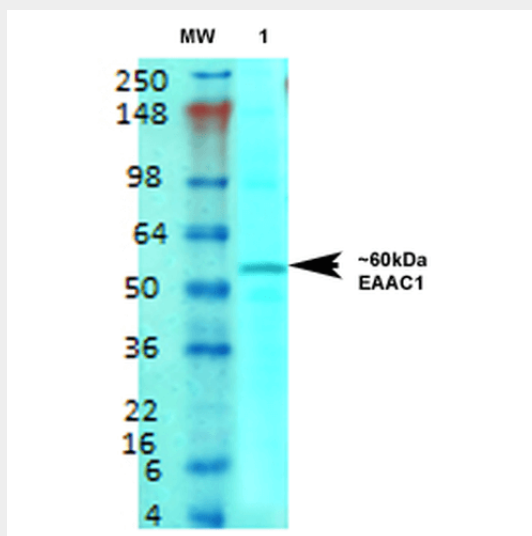


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-EAAC1 Monoclonal Antibody, Clone N180/41 (ASM10240). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-EAAC1 Monoclonal Antibody (ASM10240) at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) EAAC1 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-EAAC1 Monoclonal Antibody, Clone N180/41 (ASM10240). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-EAAC1 Monoclonal Antibody (ASM10240) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm, Membrane .

Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) EAAC1 Antibody. (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of EAAT3 protein using Mouse Anti-EAAT3 Monoclonal Antibody, Clone N180/41 (ASM10240). Primary Antibody: Mouse Anti-EAAT3 Monoclonal Antibody (ASM10240) at 1:1000.

### EAAC1 Antibody - Background

SLC1A1/EAAT3/EAAC1, a member of this transporter family, is expressed throughout the body, particularly in brain, intestine, liver, heart and kidney. Functional defects of the SLC1A1 gene are found in patients of dicarboxylic amino aciduria.

### EAAC1 Antibody - References

1. Smith C. P., et al., (1994) Genomics 20:335-336.
2. Kanai Y., and Hediger M. A. (1992) Nature 360:467-471.