

For Research Use Only

# CoraLite® Plus 488-conjugated GLAST Polyclonal antibody



Catalog Number: **CL488-20785**

## Basic Information

**Catalog Number:**

CL488-20785

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG14177

**GenBank Accession Number:**

BC037310

**GeneID (NCBI):**

6507

**UNIPROT ID:**

P43003

**Full Name:**

solute carrier family 1 (glial high affinity glutamate transporter), member 3

**Calculated MW:**

542 aa, 60 kDa

**Observed MW:**

50-55 kDa, 90-100 kDa

**Purification Method:**

Antigen Affinity Purified

**Recommended Dilutions:**

IF 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

FC (Intra), IF/ICC

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF : Neuro-2a cells,

## Background Information

SLC1A3, also known as EAAT-1 or GLAST, is a membrane-bound protein localized in glial cells and pre-synaptic glutamatergic nerve endings. It transports the excitatory neurotransmitters L-glutamate and D-aspartate, which is essential for terminating the postsynaptic action of glutamate. Recently, a correlation between expression/function of glial EAAT-1 and tumor proliferation has been reported. The exceptionally rare expression of EAAT-1 in non-neoplastic choroid plexus (CP) compared to choroid plexus tumors (CPT) may distinguish neoplastic from normal CP. There are a number of splicing variants of SLC1A3, like GLAST1a and GLAST1b, exist due to the exon skipping. It also undergo glycosylation. Variety of bands can be observed in the western blotting assay: 50-55 kDa represents the unglycosylated GLAST1a or GLAST1b, 65-70 kDa correspond to the glycosylated proteins, larger proteins between 90-130 kDa may be the multimers of SLC1A3. (11086157, 17471058, 12546822)

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

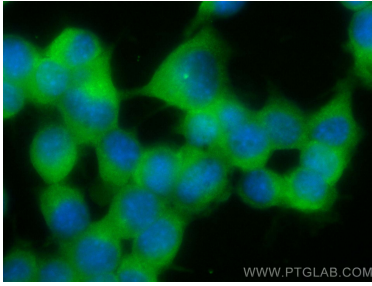
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

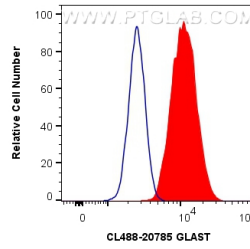
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed Neuro-2a cells using CoraLite® Plus 488 GLAST antibody (CL488-20785) at dilution of 1:200.



1X10<sup>6</sup> Neuro-2a cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human GLAST (CL488-20785) (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).