

For Research Use Only

CoraLite® Plus 488-conjugated GLAST Polyclonal antibody



Catalog Number: **CL488-20785**

Basic Information

Catalog Number: CL488-20785	GenBank Accession Number: BC037310	Purification Method: Antigen Affinity Purified
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6507	Recommended Dilutions: IF 1:50-1:500
Source: Rabbit	Full Name: solute carrier family 1 (glial high affinity glutamate transporter), member 3	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Calculated MW: 542 aa, 60 kDa	
Immunogen Catalog Number: AG14177	Observed MW: 50-55 kDa, 90-100 kDa	

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : Neuro-2a cells,
Species Specificity: human, mouse, rat	

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 distinguishes 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

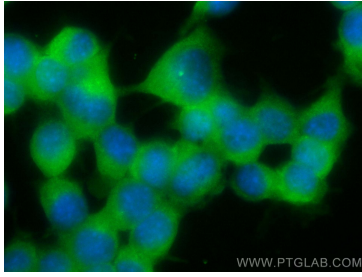
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

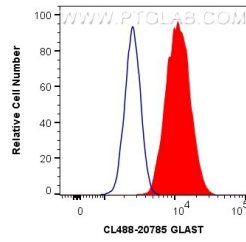
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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



1X10⁶ 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).