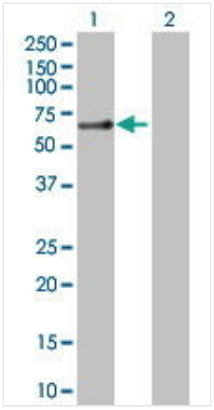
GLAST Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLAST, Polyclonal Antibody
Full Product Name	GLAST (Excitatory Amino Acid Transporter 1, Sodium-dependent Glutamate/Aspartate Transporter 1, GLAST-1, Solute Carrier Family 1 Member 3, SLC1A3, EAAT1, GLAST1)
Product Gene Name	anti-Glast antibody
Product Synonym Names	Anti -GLAST (Excitatory Amino Acid Transporter 1, Sodium-dependent Glutamate/Aspartate Transporter 1, GLAST-1, Solute Carrier Family 1 Member 3, SLC1A3, EAAT1, GLAST1)
Immunogen Sequence	MTKSNGEEPK MGGRMERFQQ GVSKRTLLAK KKVQNITKED VKSYLFRNAF VLLTVTAVIV GTILGFTLRP YRMSYREVKY FSFPGELLMR MLQMLVLPLI ISSLVTGMAA LDSKASGKMG MRAVVYYMTT TIIAVVIGII IVIIIHPGKG TKENMHREGK IVRVTAADAF LDLIRNMFPP NLVEACFKQF KTNYEKRSFK VPIQANETLV GAVINNVSEA METLTRITEE LVPVPGSVNG VNALGLVVFS MCFGFVIGNM KEQGQALREF FDSLNEAIMR LVAVIMWYAP VGILFLIAGK IVEMEDMGVI GGQLAMYTVT VIVGLLIHAV IVLPLLYFLV TRKNPWVFIG GLLQALITAL GTSSSSATLP ITFKCLEENN GVDKRVTRFV LPVGATINMD GTALYEALAA IFIAQVNNFE LNFGQIITIS ITATAASIGA AGIPQAGLVT MVIVLTSVGL PTDDITLIIA VDWFLDRLRT TTNVLGDSLG AGIVEHLSRH ELKNRDVEMG NSVIEENEMK KPYQLIAQDN ETEKPIDSET KM
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human SLC1A3.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Chromosome Location	chromosome: Un
Immunogen	Full length human SLC1A3, aa1-542 (NP_004163.2).
Product Categories/Family for anti-Glast antibody	Antibodies; Abs to Transport Proteins
Applications Tested/Suitable for anti-Glast antibody	Western Blot (WB)
Application Notes for anti-Glast antibody	Suitable for use in Western Blot.

Related Product Information for anti-Glast antibody	Glutamate is the major excitatory neurotransmitter in the mammalian central nervous system. During neurotransmission, glutamate is released from vesicles of the pre-synaptic cell, and glutamate receptors (e.g. NMDA Receptor, AMPA Receptor) bind glutamate for activation at the opposing post-synaptic cell. Excitatory amino acid transporters (EAATs) regulate and maintain extracellular glutamate concentrations below excitotoxic levels. In addition, glutamate transporters may limit the duration of synaptic excitation by an electrogenic process in which the transmitter is cotransported with three sodium ions and one proton, followed by countertransport of a potassium ion. Five EAATs (EAAT1-5) are characterized: EAAT2 (GLT-1) is primarily expressed in astrocytes but is also expressed in neurons of the retina and during fetal development. Homozygous EAAT2 knockout mice have spontaneous, lethal seizures and an increased predisposition to acute cortical injury. PKC phosphorylates Ser113 of EAAT2 and coincides with glutamate transport. EAAT2 accounts for up to 90% of the total glutamate transport in brain while EAAT1 contributes the remaining 5-10%. The contribution of EAAT1 in neurotransmission is unclear since EAAT2 is much more abundant. However, EAAT1 expression is upregulated by increasing concentrations of glutamate in the media of cultured primary astrocytes, potentially giving this glutamate transporter additional importance. EAAT1 has neuroprotective potential following ischemia since reactive astrocytes and activated microglia express EAAT1 but not EAAT2.
Other Notes	Small volumes of anti-Glast antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Glast purchase	MBS6005041 is an antibody targeting Glast. Also known as GLAST (Excitatory Amino Acid Transporter 1, Sodium-dependent Glutamate/Aspartate Transporter 1, GLAST-1, Solute Carrier Family 1 Member 3, SLC1A3, EAAT1, GLAST1). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-Glast antibody
Western Blot analysis of SLC1A3 expression in transfected 293T cell line by SLC1A3 polyclonal antibody. Lane 1: SLC1A3 transfected lysate (59.5kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Glast. It may not necessarily be applicable to this product.

NCBI GI #	350539797
NCBI GeneID	100689464
NCBI Accession #	NP_001233651.1
GenBank Nucleotide #	NM_001246722.1
NCBI Official Full Name	glutamate and aspartate transporter
NCBI Official Symbol	Glast
Protein Family	Excitatory amino acid transporter
NCBI Protein Information	glutamate and aspartate transporter

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