Human VGLUT1/SLC17A7 Antibody

Monoclonal Mouse IgG_{2B} Clone # 732607

Catalog Number: MAB9054

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VGLUT/SLC17A7 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 732607
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E.coli*-derived recombinant human VGLUT/SLC17A7 Asn93-Thr115 Accession # Q9P2U7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

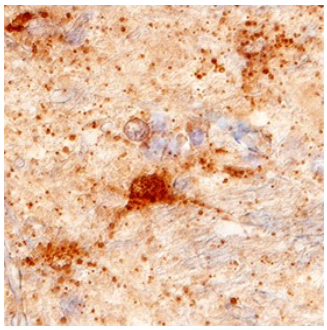
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



VGLUT1/SLC17A7 in Human Brain. VGLUT1/SLC17A7 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Mouse Anti-Human VGLUT1/SLC17A7 Monoclonal Antibody (Catalog # MAB9054) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to synaptic vesicles. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Vesicular glutamate transporter 1 (VGLUT1), also known as SLC17A7, is an integral membrane protein involved in glutamate uptake into synaptic vesicles. The vesicular glutamate transporter (VGLUT) mediates the accumulation of neurotransmitter (glutamate) into synaptic vesicles. It is expressed in pre-synaptic vesicles. VGLUT proteins appear to be differentially expressed in myelinated afferents located in specific axonal populations within the spinal cord. VGLUT proteins are among the most specific markers for the identification of glutamatergic neurons. It is an essential molecular component of glutamate synaptic transmission, and its de-regulation can result synaptic failure and excitotoxicity.

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