



VGLU1 mouse mAb

Catalog No	YP-mAb-07965
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SLC17A7 BNPI VGLUT1
Immunogen	Synthesized peptide derived from human VGLU1 AA range: 488-538
Specificity	This antibody detects endogenous levels of VGLU1 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.79% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BNPI;Brain specific Na (+) dependent inorganic phosphate cotransporter;Brain specific Na dependent inorganic phosphate cotransporter;Brain-specific Na(+)-dependent inorganic phosphate cotransporter;Slc17a7;Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter);member 7;Solute carrier family 17 member 7;Vesicular glutamate transporter 1;VGLU1_HUMAN;VGluT1;VGLU1;SLC17A7 BNPI VGLUT1;Vesicular glutamate transporter 1 (VGluT1) (Brain-specific Na(+)-dependent inorganic phosphate cotransporter) (Solute carrier family 17 member 7)
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane . Membrane ; Multi-pass membrane protein . Cell junction, synapse, synaptosome .
Tissue Specificity	Expressed in several regions of the brain including amygdala, cerebellum, cerebral cortex, hippocampus, frontal lobe, medulla, occipital lobe, putamen and temporal lobe.
Function	function:Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.,similarity:Belongs to the major facilitator superfamily.



Sodium/anion cotransporter family. VGLUT subfamily.,tissue specificity:Expressed in several regions of the brain including amygdala, cerebellum, cerebral cortex, hippocampus, frontal lobe, medulla, occipital lobe, putamen and temporal lobe.,

Background

The protein encoded by this gene is a vesicle-bound, sodium-dependent phosphate transporter that is specifically expressed in the neuron-rich regions of the brain. It is preferentially associated with the membranes of synaptic vesicles and functions in glutamate transport. The protein shares 82% identity with the differentiation-associated Na-dependent inorganic phosphate cotransporter and they appear to form a distinct class within the Na⁺/Pi cotransporter family. [provided by RefSeq, Jul 2008],

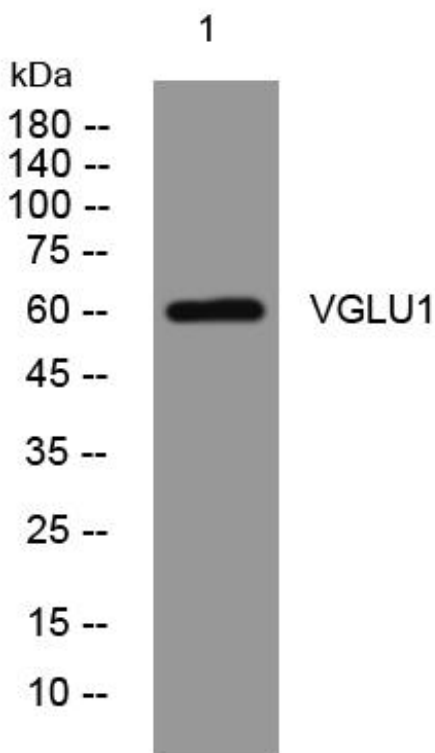
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using VGLU1 mouse mAb