

SLC17A7 monoclonal antibody, clone McKA1

Catalog # MAB5686

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of SLC17A7.
Immunogen	A synthetic peptide corresponding to human SLC17A7.
Sequence	CGATHSTFQPPRPPPPVRDY
Host	Mouse
Reactivity	Human, Rat
Specificity	This antibody reveals the presence of the 58 KDa VGlut 1 protein on western blot of extract of homogenized cerebral cortex cells. It shows very neat reaction with VGlut1 epitope of human midfrontal gyrus brain tissue in immunohistochemical labelings.
Form	Lyophilized
Isotype	IgG2a
Recommend Usage	Immunocytochemistry (1:5000) Immunohistochemistry (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS
Storage Instruction	Store at 4°C or -20°C on dry atmosphere. After reconstitution with water and glycerol (1:1), store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunocytochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SLC17A7

Entrez GeneID	57030
Protein Accession#	Q9P2U7
Gene Name	SLC17A7
Gene Alias	BNPI, VGLUT1
Gene Description	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
Omim ID	605208
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	brain-specific Na-dependent inorganic phosphate cotransporter solute carrier family 17, member 7 vesicular glutamate transporter 1

Publication Reference

- [The amyloid pathology progresses in a neurotransmitter-specific manner.](#)

Bell KF, Ducatenzeiler A, Ribeiro-da-Silva A, Duff K, Bennett DA, Cuellar AC.

Neurobiology of Aging 2006 Nov; 27(11):1644.

Application: IHC, WB-Ti, Human, Rat, Brain

Disease

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