

Product datasheet for **AP55382PU-N**

Slc17a6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, EM, IHC, WB
Recommended Dilution:	ELISA. Electron Microscopy: 1/200. Western Blot: 1/2000. Immunohistochemistry: 1/5000.
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A 19 residue synthetic peptide derived from C-terminal domain of Rat Vesicular Glutamate Transporter type 2 (MW: 55-60kD).
Specificity:	This antibody reacts with 55-60 kD protein. It does not cross reacts with VGLUT1 and VGLUT3.
Formulation:	0.1M Tris, 0.1M Glycine and 2% Sucrose State: Purified State: Lyophilized purified powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store the antibody at -20°C. Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	solute carrier family 17 member 6
Database Link:	Entrez Gene 84487 Rat Q9J112



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Background:

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.

Subcellular Location: Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Membrane; Multi-pass membrane protein. Cell junction, synapse, synaptosome.

Tissue Specificity: Expressed in brain. Expressed in hippocampal neurons (at protein level).

Development Stage: Expressed in brain throughout development. Transiently expressed in hippocampal neurons during the first week after birth, with expression decreasing thereafter.

Miscellaneous: Mice lacking this protein exhibit an elevated rate of perinatal lethality. Surviving animals display a strong reduction in evoked glutamergic responses in thalamic neurons. Reduction of protein level in homozygous and heterozygous knockouts leads to a graded reduction in the amplitude of the postsynaptic response to single vesicle fusion in thalamic neurons, consistent with a role for this protein in determining quantal size.

Synonyms:

Vesicular glutamate transporter 2, DNPI

Product images: