

## Product datasheet for **AP55381PU-N**

### Slc17a6 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, EM, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>RIA:</b> 1/1000. <b>Electron Microscopy:</b> 1/200. <b>Western Blot:</b> 1/200. <b>Immunohistochemistry.</b>
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A 19 residue synthetic peptide derived from C-terminal domain of Rat.
Specificity:	This antibody reacts with 55-60 kD protein. It does not cross reacts with VGLUT1 and VGLUT3.
Formulation:	0.1 M Tris, 0.1 M Glycine, 50% Glycerol, pH 7.8 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.02% Sodium Azide
Purification:	Antigen Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	solute carrier family 17 member 6
Database Link:	<a href="#">Entrez Gene 84487 Rat Q9JI12</a>



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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.

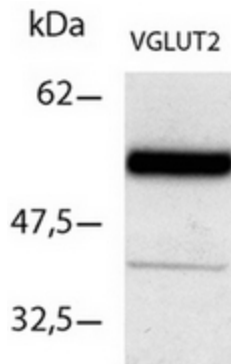
**Tissue Specificity:** Expressed in brain. Expressed in hippocampal neurons (at protein level).

**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:**

Western Blot analysis using VGLUT2 antibody  
Cat.-No AP55381PU-N. Cell lysate from Rat.