

Product datasheet for **TA326591**

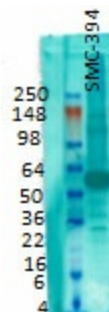
Slc17a7 Mouse Monoclonal Antibody [Clone ID: S28/9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S28/9
Applications:	WB
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGLut1
Formulation:	PBS pH7.4, 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	solute carrier family 17 member 7
Database Link:	NP_446311 Entrez Gene 57030 Human Entrez Gene 72961 Mouse Entrez Gene 116638 Rat Q62634
Background:	VGLUT1 is expressed in a subset of glutamate neurons and transports glutamate into native synaptic vesicles from the brain, exhibiting a conductance for chloride that is blocked by glutamate. Vesicular glutamate transport has a substantially lower apparent affinity than the plasma membrane excitatory amino acid transporters. Glutamate transport by VGLUT1 is saturated with a K(m) of approximately 2 mM, in the same range as transport by synaptic vesicles. Finally, plasma membrane glutamate transporters recognize both aspartate and glutamate as substrates, whereas VGLUT1 does not recognize aspartate.
Synonyms:	BNPI; VGLUT1
Note:	Detects ~52kDa. No cross-reactivity against VGLut2.



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Product images:

Western blot analysis of VGlut1 on rat membrane tissues using a 1:1000 dilution of the antibody