SV2A Monoclonal Antibody

Catalog No	YP-mAb-06252
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	SV2A KIAA0736 PSEC0174
Protein Name	Synaptic vesicle glycoprotein 2A
Immunogen	Synthesized peptide derived from part region of human protein. AA range 30-80
Specificity	SV2A Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% 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	
Observed Band	81kD
Cell Pathway	Cell junction, synapse, presynapse . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane ; Multi-pass membrane protein . Enriched in chromaffin granules, not present in adrenal microsomes. Associated with both insulin granules and synaptic-like microvesicles in insulin-secreting cells of the pancreas (By similarity). Colocalizes with ATP2B1 at photoreceptor synaptic terminals. .
Tissue Specificity	Brain,Brain cortex,Ovary,Retina,Teratocarcinoma,
Function	function:Plays a role in the control of regulated secretion in neural and endocrine cells, enhancing selectively low-frequency neurotransmission. Positively regulates vesicle fusion by maintaining the readily releasable pool of secretory vesicles.,miscellaneous:Identified as the brain binding-site for the antiepileptic drug levetiracetam/lev.,PTM:N-glycosylated.,PTM:Phosphorylation by CK1 of the N-terminal cytoplasmic domain regulates interaction with SYT1.,similarity:Belongs to the major facilitator superfamily.,subcellular location:Enriched in chromaffin granules, not present in adrenal microsomes. Associated with both insulin granules and synaptic-like microvesicles in insulin-secreting cells of the pancreas.,subunit:Interacts with SYT1/synaptotagmin-1 in a calcium-dependent manner. Binds the adapter protein complex AP-2.,

Background	The protein encoded by this gene is one of three related synaptic vesicle proteins. The encoded protein may interact with synaptotagmin to enhance low frequency neurotransmission in quiescent neurons. [provided by RefSeq, Jun 2016],
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.

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