#18572 Store at -20C

Syntaxin 1A (D4E2W) Rabbit mAb

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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 33	Source/Isotype: Rabbit IgG	UniProt ID: #Q16623	Entrez-Gene Id: 6804	
Product Usage Information		plication			Dilution		
mormation	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensi	tivity Synt	Syntaxin 1A (D4E2W) Rabbit mAb recognizes endogenous levels of total Syntaxin 1A protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val237 of human Syntaxin 1A protein.					
Background	vesio there Mun from	Syntaxin 1A (STX1A) is a SNARE protein involved in intracellular membrane fusion, including synaptic vesicle fusion (1). At the synapse, syntaxin 1 is located at the presynaptic plasma membrane and is therefore categorized as a t-SNARE protein (2). The amino-terminal domain of syntaxin 1 interacts with Munc18-1 and this interaction is essential for synaptic vesicle fusion (3). Although originally characterized from neural tissues, research studies have demonstrated syntaxin 1A expression in exocrine tissues such as pancreatic islets (4) where it negatively regulates insulin release (5).					
Background Refer	2. Fu 3. Zł 4. Ja	 Südhof, T.C. and Rothman, J.E. (2009) Science 323, 474-7. Fukuda, R. et al. (2000) Nature 407, 198-202. Zhou, P. et al. (2013) EMBO J 32, 159-71. Jacobsson, G. et al. (1994) Proc Natl Acad Sci U S A 91, 12487-91. Nagamatsu, S. et al. (1996) J Biol Chem 271, 1160-5. 					
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB:	Western Blotting					
Cross-Reactivity F	X: Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					
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