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Syntaxin 5 Antibody



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35, 42	Source: Rabbit	UniProt ID: #Q13190	Entrez-Gene Id: 6811	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensi		Syntaxin 5 Antibody recognizes endogenous levels of total syntaxin 5 protein. This antibody also cross-reacts with an unidentified protein of 120 kDa.					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly165 of human syntaxin 5 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	atta docl Golg (2,3 GO: Golg an e by tl	The membrane protein syntaxin 5 (STX5) is a key component of soluble N-ethylmaleimide-sensitive factor attachment protein (SNAP) receptor (SNARE) complexes that regulate cellular protein transport, vesicle docking, and membrane fusion (1). Syntaxin 5 protein is found as a 42 kDa ("long") protein localized to the Golgi complex and endoplasmic reticulum, and a "short" 35 kDa isoform localized primarily to the Golgi (2,3). Formation of the syntaxin 5 SNARE complex, which also includes proteins Sec22B, Bet1, GOSR1, GOSR2, and Ykt6, allows for regulation of ER-to-Golgi transport, intra-Golgi transport, and endosome-to-Golgi retrograde transport (4-6). Research studies indicate that the syntaxin 5 SNARE complex also plays an essential role in autophagy following autophagosome formation. Intracellular protein transport mediated by the syntaxin 5 complex is required for transport and localized activity of lysosomal proteases. The experimental reduction or deletion of syntaxin 5 complex components results in non-functional lysosomes and accumulation of autophagosomes (7).					

Background References

- 1. Hong, W. (2005) Biochim Biophys Acta 1744, 120-44.
- 2. Volchuk, A. et al. (2004) Mol Biol Cell 15, 1506-18.
- 3. Miyazaki, K. et al. (2012) J Cell Sci 125, 5658-66.
- 4. Tai, G. et al. (2004) Mol Biol Cell 15, 4011-22.
- 5. Xu, Y. et al. (2002) Mol Biol Cell 13, 3493-507.
- 6. Zhang, T. and Hong, W. (2001) J Biol Chem 276, 27480-7.
- 7. Renna, M. et al. (2011) J Cell Sci 124, 469-82.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry **Western Blot Buffer**

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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