

4764

Vti1a (D8U3M) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 26	Source/Isotype: Rabbit IgG	UniProt ID: #Q96AJ9	Entrez-Gene Id: 143187
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		nistry)		Dilution 1:1000 1:50 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Vti1a (D8U3M) Rabbit mAb recognizes endogenous levels of total Vti1a protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg127 of human Vti1a protein.				
Background		Vesicle transport through interaction with t-SNAREs homolog 1 (Vti1) has two protein members, Vti1a and Vti1b. Human Vti1 was first identified as a homolog of the yeast v-SNARE Vti1p and was able to functionally rescue the phenotype of Vti1p-deficient yeast (1). The mammalian proteins Vti1a and Vti1b exhibit distinct but overlapping localization. Vti1a and Vti1b are both localized in the trans-Golgi network, with Vti1a also found in the Golgi apparatus and Vti1b in endosomes (2). Vti1 proteins have been implicated in a number of protein-protein interactions with partners such as VAMP4, syntaxin 6, syntaxin 8, syntaxin 16, and synaptobrevin (2-4). Research studies demonstrate that Vti1a residing on synaptic vesicles is involved in maintaining spontaneous neurotransmitter release (5).				
Background References		 Fischer von Mollard, G. and Stevens, T.H. (1998) J Biol Chem 273, 2624-30. Kreykenbohm, V. et al. (2002) Eur J Cell Biol 81, 273-80. Antonin, W. et al. (2000) J Neurosci 20, 5724-32. Atlashkin, V. et al. (2003) Mol Cell Biol 23, 5198-207. Ramirez, D.M. et al. (2012) Neuron 73, 121-34. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.	, western blot).
Western Blot Buffer		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		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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