4265 Store at -200

STOP (175) Mouse mAb



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Applications: WB, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Mouse IgG1	UniProt ID: #Q7TSJ2	Entrez-Gene Id: 17760	
Product Usage Information	Ap	Application			Dilution		
	We	stern Blotting			1:1000		
	Imr	munofluorescence (Frozen)		1:100		
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 / Sensiti	ivity STC	STOP (175) Mouse mAb detects endogenous levels of total N-STOP and O-STOP proteins.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with purified N-STOP from rat brain. The antiger is encoded by exon 4 (Galiano et al., 2004).					
Background	activ that fibro STC dep	Stable Tubule Only Polypeptide (STOP) is a microtubule-associated protein, and its microtubule-stabilizing activity is regulated by calmodulin (1-2). STOPs have several tissue- and developmental-specific isoforms that are encoded by a single gene. Neurons express N-STOP (exons 1-4) and E-STOP (exons 1-3), fibroblasts express F-STOP (exons 1-2), oligodendrocytes express O-STOP, and astrocytes A-STOP (3). STOPs are the major contributors stabilizing microtubules that resist depolymerization due to cold or depolymerizing drugs. STOP knock-out mice display impaired synaptic plasticity associated with severe behavioral disorders in contrast to the anticipated neuronal development and brain anatomy defects (4).					
Background Refere	2. B 3. G	 Bosc, C. et al. (1996) Proc Natl Acad Sci USA 93, 2125-30. Bosc, C. et al. (2001) J Biol Chem 276, 30904-13. Galiano, M.R. et al. (2004) J Neurosci Res 78, 329-37. Andrieux, A. et al. (2002) Genes Dev 16, 2350-64. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

 $\textbf{WB:} \ \textbf{Western Blotting IF-F:} \ \textbf{Immunofluorescence (Frozen)}$

Cross-Reactivity Key

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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