NCS1 (D12D2) XP[®] Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P62166	Entrez-Gene Id: 23413
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		iistry)		Dilution 1:1000 1:50 1:200
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/Sensitivity		NCS1 (D12D2) XP [®] Rabbit mAb recognizes endogenous levels of total NCS1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human NCS1 protein.				
Background		According to affinity and function, calcium-binding proteins are separated into two classes: calcium buffers and calcium sensors. Calmodulin is a well-studied calcium sensor with well-established roles in synaptic plasticity. Neuronal calcium-sensor 1 (NCS1) is also a member of the calcium sensor family, however, its role in synaptic plasticity remains under investigation. NCS1 contains multiple EF-hand calcium-binding motifs and an amino-terminal myristoyl group (1). NCS1 has a large number of binding partners. Most of these protein interactions are calcium-dependent (e.g. dopamine D2 receptor), although some are calcium-independent (e.g. IP ₃ receptor) (2). In murine dentate gyrus, NCS1 promotes synaptic plasticity and rapid acquisition of spatial memory (3).				
Background References		1. Amici, M. et al. (200 2. Burgoyne, R.D. (200 3. Saab, B.J. et al. (200	7) Nat Rev Neuroso	ti 8, 182-93.		
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		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocy				rytochemistry)
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey				
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