

#5687 Store at -20C

PPP2R5D (H5D12) Mouse mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	66, 69	Mouse IgG1	#Q14738	5528

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	PPP2R5D (H5D12) Rabbit mAb recognizes endogenous levels of total PPP2R5D/PP2A, B'-δ/B56-δ protein. This antibody cross-reacts with PPP2R4 and PPP2R2A protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human PPP2R5D protein.	
Background	Protein Phosphatase 2A subunit isoform R5-δ (PPP2R5D) belongs to the R5/B'/B56 family of the regulatory subunit B of serine/threonine phosphatase 2A (1). PPP2R5D (B-δ) is structurally related to the other components of subunit B, B-α. PPP2R5D lacks the WD-40 repeats that are important for protein-protein interaction (1-2). Structural differences may contribute to distinct down stream effects (3) and directing PP2A nuclear localization (4). Current evidence suggests that in contrast to B-α, PPP2R5D modulates the TGF-β/Activin/Nodal signaling pathways by restricting the downstream activities of the type I TGF-β receptors, ALK4, and ALK5 (3)	
Background References	1. McCright, B. and Virshup, D.M. (1995) <i>J Biol Chem</i> 270, 26123-8. 2. Neer, E.J. et al. (1994) <i>Nature</i> 371, 297-300. 3. Batut, J. et al. (2008) <i>Development</i> 135, 2927-37. 4. McCright, B. et al. (1996) <i>J Biol Chem</i> 271, 22081-9.	

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	WB: Western Blotting IP: Immunoprecipitation
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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