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#5686

## PPP2R4 (5G3) Mouse mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H M Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Mouse IgG2a	<b>UniProt ID:</b> #P58389	<b>Entrez-Gene Id:</b> 110854
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	PPP2R4 (5G3) Mouse mAb recognizes endogenous levels of total PPP2R4 protein. This antibody does not cross-react with other PP2A proteins.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the mouse PPP2R4 protein.	
<b>Background</b>	Serine/threonine protein phosphatase 2A regulatory subunit 4 (PPP2R4) is one of the constituents of the regulatory subunit B' of PP2A (1). PPP2R4 is also known as the phosphatase activator (PTPA) and known to have the peptidyl prolyl isomerase (PPIase) activity (2-3). PPIases catalyze cis-trans isomerization of peptide bonds of proline residues in the polypeptide chain; this leads to the rapid folding of proteins (2). The ATPase activity of PPP2R4 is required for the phosphotyrosyl phosphatase activity of PP2A (2-4). Evidence suggests that PPP2R4 induces apoptosis independent of the canonical PP2A-mediated pathways (4).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Jessus, C. et al. (1989) <i>Biochem J</i> 260, 45-51.</li> <li>Cayla, X. et al. (1990) <i>Biochemistry</i> 29, 658-67.</li> <li>Chao, Y. et al. (2006) <i>Mol Cell</i> 23, 535-46.</li> <li>Azam, S. et al. (2007) <i>Apoptosis</i> 12, 1243-55.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>Mk:</b> Monkey	
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