Phospho-β-Arrestin 1 (Ser412) (6-24) Mouse mAb



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	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Mouse IgG1	UniProt ID: #P49407	Entrez-Gene Id: 408	
Product Usage Information	Ар	Application Dilution					
	We	stern Blotting			1:1000		
	Imr	nunoprecipitation			1:50		
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 / Sensitiv		Phospho- β -Arrestin 1 (Ser412) (6-24) Mouse mAb detects endogenous levels of β -arrestin 1 only when phosphorylated at serine 412. The antibody does not cross-react with beta-arrestin 2.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser412 of human β -arrestin 1.					
Background	ligar phossign and arrefunct Src rece to the Erk1 loca of β esse	nd binding stimulates sphorylated GPCR aling (1). Four distinarrestin 4 (X-arrest stin 1) and arrestin tion as adaptor and family proteins to Geptor tyrosine kinase e nucleus and help L/2 constitutively phalization of the scafferarrestin 1 to the pla	es GPCR phosph and the eventual nct mammalian a in) are localized t 3 (β-arrestin 2) a I scaffold proteins PCRs in Erk acti e signaling pathwa regulate transcri osphorylates β-a old protein (11). A asma membrane	gulators of G protein-co orylation, which is follow internalization of the re restin proteins are known to retinal rods and coneure ubiquitously expressis and play important rolevation pathways (3,4). Ω (3,8). Additional eviption by binding transcrurestin 1 at carboxy-termal Agonist stimulation of β2 and rapid dephosphory eceptor endocytosis, but	ved by binding of arrest ceptor and desensitization. Arrestin 1 (also kn s, respectively. Arrestined and bind to most Ges in other processes, 3-arrestins are also invidence suggests that priprional cofactors (9,10 minal Ser412, which pred-adrenergic receptors lation of arrestin. Depl	stin to the ation of GPCR own as S-arrestin) n 2 (also known as β-PCRs (2). β-arrestins such as recruiting colved in some β-arrestins translocate D). To motes cytosolic results in recruitment nosphorylation is an	
Background Referer	2. Le 3. Lu 4. Lu 5. Lu 6. W 7. Le 8. W 9. K 10. M	 Shenoy, S.K. and Lefkowitz, R.J. (2005) Sci STKE 2005, cm10. Lefkowitz, R.J. and Shenoy, S.K. (2005) Science 308, 512-7. Luttrell, L.M. et al. (1999) Science 283, 655-61. Luttrell, L.M. et al. (1999) Curr Opin Cell Biol 11, 177-83. Luttrell, L.M. and Lefkowitz, R.J. (2002) J Cell Sci 115, 455-65. Waters, C. et al. (2004) Semin Cell Dev Biol 15, 309-23. Lefkowitz, R.J. and Whalen, E.J. (2004) Curr Opin Cell Biol 16, 162-8. Waters, C.M. et al. (2005) Cell Signal 17, 263-77. Kang, J. et al. (2005) Cell 123, 833-47. Ma, L. and Pei, G. (2007) J Cell Sci 120, 213-8. Lin, F.T. et al. (1999) J Biol Chem 274, 15971-4. 					

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

12. Lin, F.T. et al. (1997) J Biol Chem 272, 31051-7.

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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