

45878

GRK6 (D1A4) Rabbit mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P43250	Entrez-Gene Id: 2870
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		GRK6 (D1A4) Rabbit mAb recognizes endogenous levels of total GRK6 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu89 of human GRK6 protein.				
Background		G protein-coupled R eceptor K inase 6 (GRK6) is one of 7 members of the GRK serine/threonine kinase subfamily, which are known primarily for their role in desensitizing activated G protein-coupled receptors (GPCRs) (1,2). GRKs function by phosphorylating serine/threonine residues in activated GPCRs. Upon phosphorylation these residues serve as binding sites for β-arrestin proteins, inhibiting re-activation of GPCRs by blocking their re-association with G proteins (3). There is evidence that GRKs can also modulate selected non-GPCR signaling pathways (2). For example, GRK6 has been shown to modulate the Wnt signaling pathway via phosphorylation of LRP6 (4), and the insulin-like growth factor signaling pathway (5). GRK6 may also play a role in immune system function. Investigators have found GRK6 expression is typically abundant in hematopoietic tumor cell lines, and a recent research study demonstrated that GRK6 suppression was selectively lethal for a number of myeloma tumor cell lines (6).				
Background References		 Mushegian, A. et al. (2012) <i>PLoS One</i> 7, e33806. Gurevich, E.V. et al. (2012) <i>Pharmacol Ther</i> 133, 40-69. Ribas, C. et al. (2007) <i>Biochim Biophys Acta</i> 1768, 913-22. Chen, M. et al. (2009) <i>J Biol Chem</i> 284, 35040-8. Zheng, H. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, 7055-60. Tiedemann, R.E. et al. (2010) <i>Blood</i> 115, 1594-604. 				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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