e at -20C	GRK6 (D1A4) Rabbit mAb		Cell Signaling TECHNOLOGY®		
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	activity: Sensitivity: H M R 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 μ g/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	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	subfamily, which are k (GPCRs) (1,2). GRKs phosphorylation these GPCRs by blocking th modulate selected nor the Wnt signaling path pathway (5). GRK6 ma expression is typically demonstrated that GR	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 Reference	2. Gurevich, E.V. et al. 3. Ribas, C. et al. (200 4. Chen, M. et al. (200 5. Zheng, H. et al. (201	 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 de	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	WB: Western Blotting	WB: Western Blotting					
Cross-Reactivity Key	X: Xenopus Z: zebrafis	 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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GRK6 (D1A4) Rabbit mAb (#5878) Datasheet Without Images Cell Signaling Technology

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