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#80362**GRK3 (D8G6V) Rabbit mAb**

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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P35626	Entrez-Gene Id: 157
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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	GRK3 (D8G6V) Rabbit mAb recognizes endogenous levels of total GRK3 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys454 of human GRK3 protein.	
Background	G-protein-coupled receptor kinase 3 (GRK3), also known as beta-adrenergic receptor kinase 2 (beta-ARK2), is a member of the GRK family, which phosphorylates the activated form of G-protein-coupled receptors (GPCRs) and initiates the desensitization process of GPCR (1). GRK3 has been implicated in the phosphorylation of GPCRs, enabling their interaction with beta-arrestin, and facilitating their signaling through ERK1/2 phosphorylation (2). More recently, GRK3 was found to play a critical role in tumor progression through stimulation of angiogenesis; furthermore, GRK3 was found to be overexpressed in human prostate cancer, in particular in metastatic tumors (3).	
Background References	<ol style="list-style-type: none"> Pitcher, J.A. et al. (1998) <i>Annu Rev Biochem</i> 67, 653-92. Macey, T.A. et al. (2006) <i>J Biol Chem</i> 281, 34515-24. Li, W. et al. (2014) <i>Proc Natl Acad Sci U S A</i> 111, 1521-6. 	
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	W: Western Blotting	
Cross-Reactivity Key	H: Human M: Mouse	
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