#3992 Store at -20C

Gα (pan) Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P	HMRMkB	Endogenous	39, 41	Rabbit	#P19086, #P50148,	2781, 2776, 2767
		-			#P29992	

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Product Usage	Application	Dilution		
Information	Western Blotting	1:1000		
	Immunoprecipitation	1:50		
	Immunohistochemistry (Paraffin)	1:100		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.			
Specificity / Sensitivity	G α (pan) Antibody detects total levels of endogenous G protein alpha subunits. The antibody may not detect G(12)- α , G(13)- α (13), G(s)- α (s) and G(olf)- α .			
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human guanine nucleotide-binding protein $G\alpha$ (q) subunit. Antibodies are purified by protein A and peptide affinity chromatography.			
Background	Heterotrimeric guanine nucleotide-binding proteins (G proteins) consist of α , β and γ subunits and mediate the effects of hormones, neurotransmitters, chemokines, and sensory stimuli. To date, over 20 known G α subunits have been classified into four families, G α (s), G α (i/o), G α (q) and G α (12), based on structural and functional similarities (1,2). Phosphorylation of Tyr356 of G α (q)/G α (11) is essential for activation of the G protein, since phenylalanine substitution for Tyr356 changes the interaction of G α with receptors and abolishes ligand-induced IP $_3$ formation (3).			
Background References	1. Offermanns, S. (2001) <i>Oncogene</i> 20, 1635-42. 2. Pierce, K.L. et al. (2002) <i>Nat Rev Mol Cell Biol</i> 3, 639-50.			

3. Umemori, H. et al. (1997) Science 276, 1878-81.

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 IHC-P: Immunohistochemistry (Paraffin)

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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