PI3 Kinase p85 Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit	UniProt ID: #P27986	Entrez-Gene Id: 5295
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		PI3 Kinase p85 Antibody detects endogenous levels of PI3 Kinase p85. The antibody will not recognize p50 or p55 spliced isoforms.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro84 of human PI3 Kinase p85 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Phosphoinositide 3-kinase (PI3K) catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP), and phosphatidylinositol-4,5-bisphosphate (PIP $_2$). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival (1). PTEN reverses this process, and research studies have shown that the PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN (2). PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit. Various isoforms of the catalytic subunit (p110 α , p110 β , p110 β , and p110 β have been isolated, and the regulatory subunits that associate with p110 α , p110 β , and p110 β are p85 α and p85 β (3). In contrast, p110 γ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110 γ is activated by $\beta\gamma$ subunits of heterotrimeric G proteins (4).				
Background Ro	eferences	 Cantley, L.C. (2002) Science 296, 1655-7. Simpson, L. and Parsons, R. (2001) Exp Cell Res 264, 29-41. Neri, L.M. et al. (2002) Biochim Biophys Acta 1584, 73-80. Stoyanov, B. et al. (1995) Science 269, 690-3. 				
Species Reactiv	vitv	Species reactivity is de	termined by testin	g in at least one approve	ed application (e ɑ	western blot)

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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 IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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