PI3 Kinase p85 Antibody



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85	Source: Rabbit	UniProt ID: #P27986	Entrez-Gene Id: 5295	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
	Imr	Immunoprecipitation			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 residues surrounding Pro84 of human PI3 Kinase p85 protein. Antibodies are purified by protein A peptide affinity chromatography.						, ,	
Background	pho: 4,5- cool and cand	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 (p110α, p110β, p110γ, and p110δ) have been					

Background References

- 1. Cantley, L.C. (2002) Science 296, 1655-7.
- 2. Simpson, L. and Parsons, R. (2001) Exp Cell Res 264, 29-41.
- 3. Neri, L.M. et al. (2002) Biochim Biophys Acta 1584, 73-80.

is activated by βy subunits of heterotrimeric G proteins (4).

4. Stoyanov, B. et al. (1995) Science 269, 690-3.

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,

isolated, and the regulatory subunits that associate with p110 α , p110 β , and p110 δ are p85 α and p85 β (3). In contrast, p110y associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110y

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

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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