Store at -200

PI3 Kinase p85 (19H8) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit IgG	UniProt ID: #P27986	Entrez-Gene Id 5295
Product Usage Information	Ap	plication			Dilution	
	We	stern Blotting			1:1000	
	Imr	munoprecipitation			1:50	
Storage	Supplied in 10 mM sodium HEPES (pH 7. 0.02% sodium azide. Store at –20°C. Do i			7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than not aliquot the antibody.		
Specificity / Sensitivity		PI3 Kinase p85 (19H8) Rabbit mAb detects endogenous levels of total PI3K p85 protein.				
Species predicte react based on 1 sequence homol	.00%	cken				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro85 of human PI3K p85 protein.				
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 (p110α, p110β, p110γ, and p110δ) have been 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 is activated by By subunits of heterotrimeric G proteins (4).

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

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

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

WB: Western Blotting IP: Immunoprecipitation **Applications Key**

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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Limited Uses

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