## PI3 Kinase p85 (19H8) Rabbit mAb





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Applications: W, W-S, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 85	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P27986	Entrez-Gene Id: 5295	
Product Usage Information		<b>Application</b> Western Blotting Simple Western™ Immunoprecipitation			<b>Dilution</b> 1:1000 1:10 - 1:50 1:50		
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/Sen	sitivity	PI3 Kinase p85 (19H8) Rabbit mAb detects endogenous levels of total PI3K p85 protein.					
	pecies predicted to react Chicken ased on 100% sequence omology						
Source / Purific	ation	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 <sub>2</sub> ). 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 p110α, p110β, and p110δ are p85α and p85β (3). In contrast, p110γ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110γ is activated by βγ subunits of heterotrimeric G proteins (4).					
Background Re	eferences	1. Cantley, L.C. (2002) <i>Science</i> 296, 1655-7. 2. Simpson, L. and Parsons, R. (2001) <i>Exp Cell Res</i> 264, 29-41. 3. Neri, L.M. et al. (2002) <i>Biochim Biophys Acta</i> 1584, 73-80. 4. Stoyanov, B. et al. (1995) <i>Science</i> 269, 690-3.					
Species Reactiv	/ity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	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.				n 5% w/v BSA, 1X	
Applications Ke	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation					
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat					
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