mAb

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PI3 Kinase p110y (D55D5) Rabbit

Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 110	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P48736	Entrez-Gene Id: 5294		
Product Usage Information	We	plication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 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 / Sensi	tivity PI3	PI3 Kinase p110γ (D55D5) Rabbit mAb detects endogenous levels of total PI3 kinase p110γ protein.						
Species predicted react based on 100 sequence homolog	0%							
Source / Purification		noclonal antibody is p < p110y.	roduced by imm	nunizing animals with a s	synthetic peptide corres	sponding to human		
Background Background Refer	pho 4,5- coor and can regu isola In c is ac <b>rences</b> 1. C 2. S	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 (p110 $\alpha$ , p110 $\beta$ , p110 $\gamma$ , and p110 $\delta$ ) have been isolated, and the regulatory subunits that associate with p110 $\alpha$ , p110 $\beta$ , and p110 $\delta$ are p85 $\alpha$ and p85 $\beta$ (3). In contrast, p110 $\gamma$ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110 $\gamma$ is activated by $\beta\gamma$ subunits of heterotrimeric G proteins (4).						
		toyanov, B. et al. (199						
Species Reactivity	y Spec	ies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buff		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:	Immunoprecipi	tation				
Cross-Reactivity k	<b>X</b> : Xe	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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Limited Uses								

PI3 Kinase p110γ (D55D5) Rabbit mAb (#5405) Datasheet Without Images Cell Signaling Technology

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