Store at -20C

GBL Antibody



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Applications: F WB, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 37	Source: Rabbit	UniProt ID: #Q9BVC4	Entrez-Gene Id 64223	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
	lmı	munohistochemistry	(Paraffin)		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 / Sensitiv	ity GβL Antibody detects endogenous levels of total GβL protein.						
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln164 of human G β L. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	mar sign One inse mTC	Cell growth is a fundamental biological process whereby cells accumulate mass and increase in size. The mammalian Target of Rapamycin (mTOR) pathway regulates growth by coordinating energy and nutrient signals with growth factor-derived signals (1). mTOR is a large protein kinase with two different complexes. One complex contains mTOR, G β L, and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, G β L, and rictor (1). G β L associates with the kinase domain of mTOR and stimulates mTOR kinase activity (2). A reduction in G β L expression has been shown to decrease <i>in vivo</i> phosphorylation of S6K1 (2).					
Background Referen		1. Sarbassov, D.D. et al. (2004) <i>Curr Biol.</i> 14, 1296-1302. 2. Kim. D.H. et al. (2003) <i>Mol. Cell</i> 11, 895-904.					

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

Applications Key

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

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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