

#3274 Store at -20°C

## GβL (86B8) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	37	Rabbit IgG	#Q9BVC4	64223

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	GβL (86B8) Rabbit mAb detects endogenous levels of total GβL protein.	
<b>Source / Purification</b>	GβL (86B8) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide corresponding to residues surrounding Gln210 of human GβL.	
<b>Background</b>	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, GβL, and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, GβL, and rictor (1). GβL associates with the kinase domain of mTOR and stimulates mTOR kinase activity (2). A reduction in GβL expression has been shown to decrease <i>in vivo</i> phosphorylation of S6K1 (2).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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