Revision 1

Store at +4C

#6938

GβL (86B8) Rabbit mAb (Magnetic Bead Conjugate)

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

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

Product Usage Information

Application	Dilution
Immunoprecipitation	1:20

Storage

Supplied in PBS Buffer (pH 7.2), 0.1% Tween® 20. Store at 4°C. Do not aliquot the antibodies.

Specificity/Sensitivity

GβL (86B8) Rabbit mAb (Magnetic Bead Conjugate) detects endogenous levels of total GβL protein.

Source / Purification

GβL (86B8) Rabbit mAb is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln210 of human GβL.

Description

This Cell Signaling Technology (CST) antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modifed antibody with formylbenzamide-modified magnetic bead. GβL (86B8) Rabbit mAb (Magnetic Bead Conjugate) is useful for immunoprecipitation assays of GβL protein. The unconjugated GβL (86B8) Rabbit mAb #3274 reacts with human, mouse, rat, and monkey GβL protein. CST expects that GβL (86B8) Rabbit mAb (Magnetic Bead Conjugate) will also recognize GβL in these species.

Background

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 *in vivo* phosphorylation of S6K1 (2).

Background References

1. Sarbassov, D.D. et al. (2004) *Curr Biol.* 14, 1296-1302.
2. Kim, D.H. et al. (2003) *Mol. Cell* 11, 895-904.

Species Reactivity

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

Applications Key

IP: Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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Limited Uses

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