

Store at -20C  
#5837**GβL (86B8) Rabbit mAb (Sepharose® Bead Conjugate)**
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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**

Immunoprecipitation

**Dilution**

1:20

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.

**Specificity/Sensitivity**

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

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln210 of human GβL protein.

**Description**

This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. GβL (86B8) Rabbit mAb (Sepharose® Bead Conjugate) is useful for the immunoprecipitation of GβL protein.

**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**Trademarks and Patents**

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