

## Product datasheet for **TA306214**

### G protein beta subunit like (MLST8) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 10 ug/mL, IF: 10 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	GβL antibody was raised against a 14 amino acid peptide from near the carboxy-terminus of human GβL.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	MTOR associated protein, LST8 homolog
Database Link:	<a href="#">AAH52292</a> <a href="#">Entrez Gene 64223 Human</a> <a href="#">Q9BVC4</a>



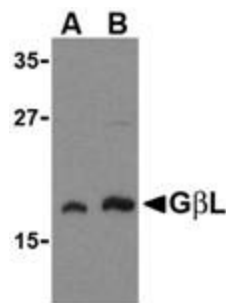
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**Background:**

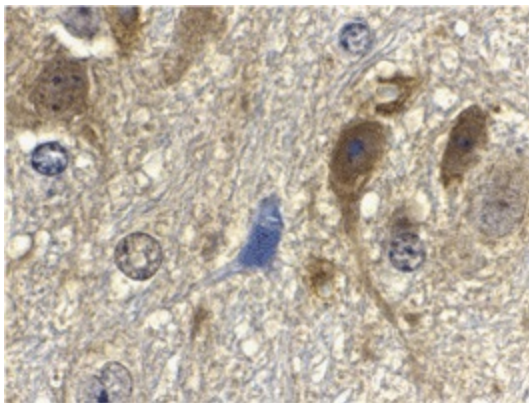
GbetaL (G protein beta protein subunit-like) is a member of a signaling pathway that regulates mammalian cell growth in response to the presence of nutrients and growth factors (1). It binds to the kinase domain of TOR (Target of rapamycin, also known as mTOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors (reviewed in 2). Rapamycin inhibits TOR resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation (reviewed in 3). TOR is normally associated with GbetaL and an additional regulatory protein RAPTOR, allowing TOR to control protein biosynthesis (3). The binding of GbetaL to TOR stimulates TOR's kinase activity towards downstream proteins such as RPS6K (ribosomal protein S6 kinase) and the translation factor 4E-BP1 which leads to increased protein translation and cell growth (3).

**Synonyms:**

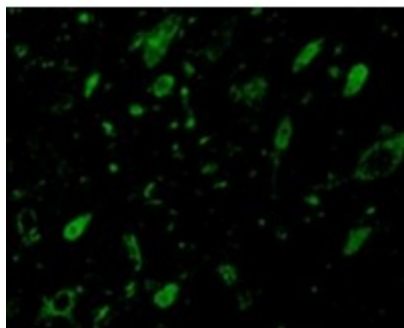
GbetaL; GBL; LST8; POP3; WAT1

**Product images:**

Western blot analysis of GbL in human brain cell lysate with GbL antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of GBL in mouse brain tissue with GBL antibody at 10 ug/ml.



Immunofluorescence of GBL in Mouse Brain cells with GBL antibody at 10 ug/mL.