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Product datasheet for TA302160

G protein beta subunit like (MLST8) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:50~100
Reactivity:	Human (Predicted: Mouse, Rat, Bovine)
Host:	Rabbit
lsotype:	lg
Clonality:	Polyclonal
Immunogen:	This GBL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 140-170 amino acids from the Central region of human GBL.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35876 Da
Gene Name:	MTOR associated protein, LST8 homolog
Database Link:	<u>NP_071767</u> <u>Entrez Gene 56716 MouseEntrez Gene 64226 RatEntrez Gene 64223 Human</u> <u>Q9BVC4</u>



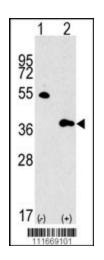
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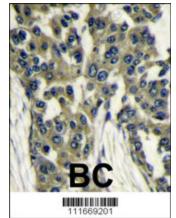
Background:GBL (G protein beta protein subunit-like) is a member of a signaling pathway that regulates
mammalian cell growth in response to the presence of nutrients and growth factors. It binds
to the kinase domain of TOR (Target of rapamycin, also known as mTOR), an evolutionarily
conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability
to integrate signals from nutrient levels and growth factors. Rapamycin inhibits TOR resulting
in reduced cell growth and reduced rates of cell cycle and cell proliferation. TOR is normally
associated with GBL and an additional regulatory protein RAPTOR, allowing TOR to control
protein biosynthesis. The binding of GBL 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.

Synonyms:GbetaL; GBL; LST8; POP3; WAT1Protein Pathways:mTOR signaling pathway

Product images:



Western blot analysis of GBL Antibody (Center) polyclonal antibody (Cat.#TA302160) (arrow). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the GBL gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with GBL antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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