Datasheet for ABIN499879

anti-GBL antibody

2 Images

Go to Product page

Overview

Quantity:	0.1 mg
Target:	GBL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GBL antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human GbL / G beta protein subunit-like Peptide
Isotype:	IgG
Specificity:	GbL antibody was raised against a 14 amino acid peptide from near the carboxy-terminus of human GbL.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	GBL
Alternative Name:	LST8 / GBL (GBL Products)
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

Target Details

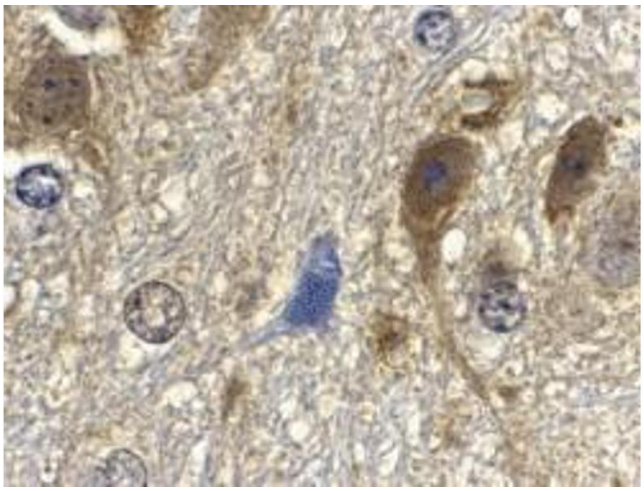
	to the kinase domain of TOR (Target of rapamycin, also known as mTOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors (reviewed in 2). Rapamycin inhibits TOR resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation (reviewed in 3). TOR is normally associated with GβL and an additional regulatory protein RAPTOR, allowing TOR to control protein biosynthesis (3). The binding of GβL 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: G protein beta subunit-like, Gable, Mammalian lethal with SEC13 protein 8, Protein GbetaL, TORC subunit LST8, Target of rapamycin complex subunit LST8, mLST8
Gene ID:	64223
UniProt:	Q9BVC4
Pathways:	PI3K-Akt Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Actin Filament Polymerization, Autophagy, CXCR4-mediated Signaling Events, BCR Signaling, Warburg Effect

Application Details

Application Notes:	ELISA. Western Blot: 1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

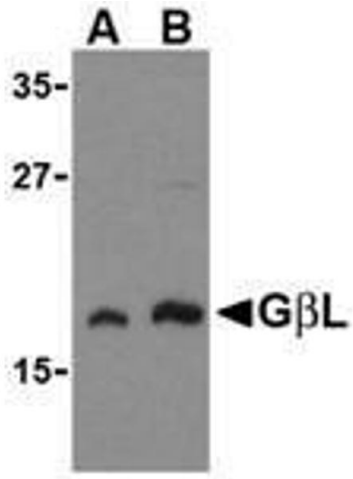
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of GbL in mouse brain tissue with GbL antibody at 10 µg/ml.



Western Blotting

Image 2. Western blot analysis of GbL in human brain cell lysate with AP30359PU-N GbL antibody at (A) 1 and (B) 2 µg/ml.