Datasheet for ABIN7317349

LAMTOR2 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	LAMTOR2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAMTOR2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human LAMTOR2/ROBLD3/MAPBPIP Protein (His Tag)
Sequence:	Met 1-Ser 125
Characteristics:	A DNA sequence encoding the mature form of human LAMTOR2 isoform 1 (Q9Y2Q5-1) (Met 1-Ser 125) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.

Target Details

Target:	LAMTOR2
Alternative Name:	LAMTOR2/ROBLD3/MAPBPIP (LAMTOR2 Products)
Background:	Background: Ragulator complex protein LAMTOR2, also known as Endosomal adaptor protein p14, Late endosomal / lysosomal Mp1-interacting protein, Late endosomal / lysosomal adaptor and MAPK and MTOR activator 2, Mitogen-activated protein-binding protein-interacting protein, Roadblock domain-containing protein 3, LAMTOR2, MAPBPIP and ROBLD3, is a protein which

Target Details

	belongs to the GAMAD family. LAMTOR2 / ROBLD3 is a regulator of the TOR pathway, a signaling cascade that promotes cell growth in response to growth factors, energy levels, and amino acids. As part of the Ragulator complex, LAMTOR2 / ROBLD3 recruits the Rag GTPases and the mTORC1 complex to lysosomes, a key step in activation of the TOR signaling cascade by amino acids. LAMTOR2 / ROBLD3 is an adapter protein that enhances the efficiency of the MAP kinase cascade facilitating the activation of MAPK2. Defects in LAMTOR2 are the cause of immunodeficiency due to defect in MAPBP-interacting protein (ID-MAPBPIP). This form of primary immunodeficiency syndrome includes congenital neutropenia, partial albinism, short stature and B-cell and cytotoxic T-cell deficiency. Synonym: ENDAP;HSPC003;MAPBPIP;MAPKSP1AP;p14;Ragulator2;ROBLD3;RP11-336K24.9
Molecular Weight:	15 kDa
Pathways:	PI3K-Akt Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.