Datasheet for ABIN1710272

anti-LAMTOR2 antibody (AA 3-100) (FITC)

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Overview

Quantity:	100 µL
Target:	LAMTOR2
Binding Specificity:	AA 3-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAMTOR2 antibody is conjugated to FITC
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ROBLD3
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Dog,Cow
Purification:	Purified by Protein A.

Target Details

Target:	LAMTOR2
Alternative Name:	Robld3 (LAMTOR2 Products)
Background:	Synonyms: ENDAP, Endosomal adaptor protein p14, HSPC003, LAMTOR2, Late

Target Details

	endosomal/lysosomal adaptor and MAPK and MTOR activator 2, Late endosomal/lysosomal Mp1 interacting protein, Late endosomal/lysosomal Mp1-interacting protein, LTOR2_HUMAN, MAPBPIP, MAPKSP1 adaptor protein, MAPKSP1AP, Mitogen activated protein binding protein interacting protein, Mitogen-activated protein-binding protein-interacting protein, p14, Ragulator complex protein LAMTOR2, Ragulator2, Roadblock domain containing 3, Roadblock domain containing protein 3, Roadblock domain-containing protein 3, ROBLD 3, RP11 336K24.9. Background: MP1 (MEK partner 1) functions as a scaffolding protein in the mitogen activated protein (MAP) kinase signaling pathway. Growth factor induced MAP kinase activation is selectively mediated by the extracellular signal-regulated kinase (ERK) cascade. MAPBPIP (mitogen-activated protein-binding protein-interacting protein), also known as p14 and late endosomal/lysosomal MP1-interacting protein, functions as an adaptor protein augmenting the regulation of the MAP kinase cascade. Partner proteins MAPBPIP and MP1 are structurally almost identical each with a five-stranded -sheet flanked between a two-helix and one-helix layer. MAPBPIP compels the recruitment of MP1 to late endosomes where they form a very stable heterodimeric complex required for ERK activation on endosomes. Knockdown of the individual proteins in the MP1/MAPBPIP complex resulted in decreased expression of the partner proteins which implies greater stability of the heterodimeric complex than either MP1 or MAPBPIP individually. Early research suggests the MP1-MAPBPIP-MEK-1 signaling complex may be critical in the regulation of tissue homeostasis.
Pathways:	PI3K-Akt Signaling

Application Details

Application Notes:	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

