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Datasheet for ABIN1712086
anti-LAMTOR2 antibody (AA 3-100) (HRP)

Overview

Quantity:	100 µL
Target:	LAMTOR2
Binding Specificity:	AA 3-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAMTOR2 antibody is conjugated to HRP
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

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, L TOR2_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 β -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: IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 $\mu\text{g}/\mu\text{L}$

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Handling Advice: Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months