

# MAP2K1IP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55243

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9UHA4</a>
<b>Reactivity</b>	Rat, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	13623
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human MAP2K1IP1
<b>Epitope Specificity</b>	5-100/124
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Late endosome membrane.
<b>SIMILARITY</b>	Belongs to the LAMTOR3 family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	This gene encodes a scaffold protein that functions in the extracellular signal-regulated kinase (ERK) cascade. The protein is localized to late endosomes by the mitogen-activated protein-binding protein-interacting protein, and binds specifically to MAP kinase kinase MAP2K1/MEK1, MAP kinase MAPK3/ERK1, and MAP kinase MAPK1/ERK2. Studies of the orthologous gene in mouse indicate that it regulates late endosomal traffic and cell proliferation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 13. [provided by RefSeq, Aug 2011]

## Additional Information

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<b>Gene ID</b>	8649
<b>Other Names</b>	Regulator complex protein LAMTOR3, Late endosomal/lysosomal adaptor and MAPK and MTOR activator 3, MEK-binding partner 1, Mp1, Mitogen-activated protein kinase kinase 1-interacting protein 1, Mitogen-activated protein kinase scaffold protein 1, LAMTOR3, MAP2K1IP1, MAPKSP1
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

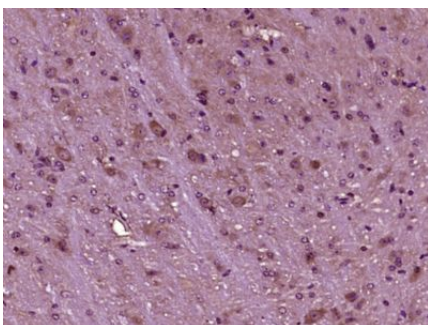
## Protein Information

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<b>Name</b>	LAMTOR3 ( <a href="#">HGNC:15606</a> )
<b>Synonyms</b>	MAP2K1IP1, MAPKSP1
<b>Function</b>	<p>As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids (PubMed:<a href="#">20381137</a>, PubMed:<a href="#">22980980</a>, PubMed:<a href="#">28935770</a>, PubMed:<a href="#">29107538</a>, PubMed:<a href="#">29123114</a>, PubMed:<a href="#">29158492</a>, PubMed:<a href="#">30181260</a>). Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator plays a dual role for the small GTPases Rag (RagA/RRAGA, RagB/RRAGB, RagC/RRAGC and/or RagD/RRAGD): it (1) acts as a guanine nucleotide exchange factor (GEF), activating the small GTPases Rag and (2) mediates recruitment of Rag GTPases to the lysosome membrane (PubMed:<a href="#">22980980</a>, PubMed:<a href="#">28935770</a>, PubMed:<a href="#">29107538</a>, PubMed:<a href="#">29123114</a>, PubMed:<a href="#">29158492</a>, PubMed:<a href="#">30181260</a>). Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated (PubMed:<a href="#">22980980</a>, PubMed:<a href="#">28935770</a>, PubMed:<a href="#">29107538</a>, PubMed:<a href="#">29123114</a>, PubMed:<a href="#">29158492</a>, PubMed:<a href="#">30181260</a>). Adapter protein that enhances the efficiency of the MAP kinase cascade facilitating the activation of MAPK2 (By similarity).</p>
<b>Cellular Location</b>	Late endosome membrane {ECO:0000250 UniProtKB:O88653}; Peripheral membrane protein {ECO:0000250 UniProtKB:O88653}; Cytoplasmic side {ECO:0000250 UniProtKB:O88653}. Note=Recruited to lysosome and endosome membranes by LAMTOR1. {ECO:0000250 UniProtKB:O88653}

## Images

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Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MAP2K1IP1) Polyclonal Antibody, Unconjugated (AP55243) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.