

**MAP2K1IP1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55243**

**Specification**

**MAP2K1IP1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9UHA4</a>
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13.6 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAP2K1IP1
Epitope Specificity	5-100/124
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Late endosome membrane.
SIMILARITY	Belongs to the LAMTOR3 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

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]

**MAP2K1IP1 Polyclonal Antibody - Additional Information**

**Gene ID** 8649

**Other Names**

Ragulator 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

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A

=["dilution\\_IF">IF~1:50~200</span><br \><span class = "dilution\\_ICC">ICC~N/A</span><br \><span class = "dilution\\_E">E~N/A</span>](#)

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

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.

**MAP2K1IP1 Polyclonal Antibody - Protein Information**

**Name** LAMTOR3 ([HGNC:15606](#))

**Synonyms** MAP2K1IP1, MAPKSP1

**Function**

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:[>20381137</a>, PubMed:\[>22980980</a>, PubMed:\\[>28935770</a>, PubMed:\\\[>29107538</a>, PubMed:\\\\[>29123114</a>, PubMed:\\\\\[>29158492</a>, PubMed:\\\\\\[>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:\\\\\\\[>22980980</a>, PubMed:\\\\\\\\[>28935770</a>, PubMed:\\\\\\\\\[>29107538</a>, PubMed:\\\\\\\\\\[>29123114</a>, PubMed:\\\\\\\\\\\[>29158492</a>, PubMed:\\\\\\\\\\\\[>30181260</a>\\\\\\\\\\\\\). Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated \\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\[>22980980</a>, PubMed:\\\\\\\\\\\\\\[>28935770</a>, PubMed:\\\\\\\\\\\\\\\[>29107538</a>, PubMed:\\\\\\\\\\\\\\\\[>29123114</a>, PubMed:\\\\\\\\\\\\\\\\\[>29158492</a>, PubMed:\\\\\\\\\\\\\\\\\\[>30181260</a>\\\\\\\\\\\\\\\\\\\). Adapter protein that enhances the efficiency of the MAP kinase cascade facilitating the activation of MAPK2 \\\\\\\\\\\\\\\\\\\(By similarity\\\\\\\\\\\\\\\\\\\).\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/30181260\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/29158492\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/29123114\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/29107538\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(http://www.uniprot.org/citations/28935770\\\\\\\\\\\\\\)\\\\\\\\\\\\\]\\\\\\\\\\\\\(http://www.uniprot.org/citations/22980980\\\\\\\\\\\\\)\\\\\\\\\\\\]\\\\\\\\\\\\(http://www.uniprot.org/citations/30181260\\\\\\\\\\\\)\\\\\\\\\\\]\\\\\\\\\\\(http://www.uniprot.org/citations/29158492\\\\\\\\\\\)\\\\\\\\\\]\\\\\\\\\\(http://www.uniprot.org/citations/29123114\\\\\\\\\\)\\\\\\\\\]\\\\\\\\\(http://www.uniprot.org/citations/29107538\\\\\\\\\)\\\\\\\\]\\\\\\\\(http://www.uniprot.org/citations/28935770\\\\\\\\)\\\\\\\]\\\\\\\(http://www.uniprot.org/citations/22980980\\\\\\\)\\\\\\]\\\\\\(http://www.uniprot.org/citations/30181260\\\\\\)\\\\\]\\\\\(http://www.uniprot.org/citations/29158492\\\\\)\\\\]\\\\(http://www.uniprot.org/citations/29123114\\\\)\\\]\\\(http://www.uniprot.org/citations/29107538\\\)\\]\\(http://www.uniprot.org/citations/28935770\\)\]\(http://www.uniprot.org/citations/22980980\)](http://www.uniprot.org/citations/20381137)

**Cellular Location**

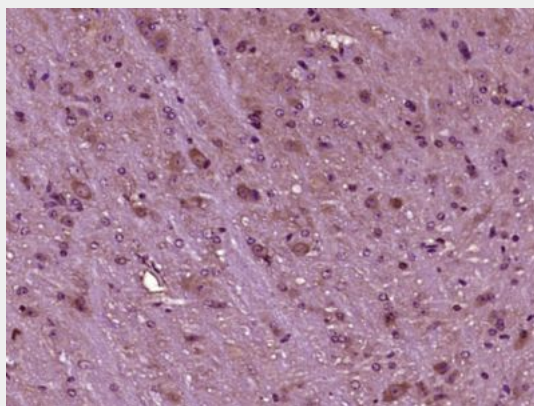
Late endosome membrane {ECO:0000250|UniProtKB:O88653}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88653}; Cytoplasmic side {ECO:0000250|UniProtKB:O88653}.  
Note=Recruited to lysosome and endosome membranes by LAMTOR1.  
{ECO:0000250|UniProtKB:O88653}

**MAP2K1IP1 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **MAP2K1IP1 Polyclonal Antibody - Images**



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 (bs-13688R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.