# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-125aa

UniProt No. Q9Y2Q5

NCBI Accession No. NP\_054736

### **Alternative Names**

ENDAP, Endosomal adaptor protein p14, Late endosomal/lysosomal adaptor and MAPK and MTOR activator 2, MAPBP-interacting protein, MAPBPIP, MAPKSP1 adaptor protein, MAPKSP1AP, Mitogen activated protein binding protein interacting protein, p14, Ragulator complex protein LAMTOR2, Ragulator2, Roadblock domain containing 3

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

15.9 kDa (148aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

LAMTOR2 is highly conserved with a mouse protein associated with the cytoplasmic face of late endosomes and lysosomes. The mouse protein interacts with MAPK scaffold protein 1, a component of the mitogen-activated protein kinase pathway. In humans, a mutation in this gene has been associated with a primary



immunodeficiency syndrome, and suggests a role for this protein in endosomal biogenesis. Recombinant human LAMTOR2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMLRPKAL TQVLSQANTG GVQSTLLLNN EGSLLAYSGY GDTDARVTAA IASNIWAAYD RNGNQAFNED NLKFILMDCM EGRVAITRVA NLLLCMYAKE TVGFGMLKAK AQALVQYLEE PLTQVAAS

## **General References**

Bohn G., et al. (2007) Nat. Med. 13:38-45 Sancak Y., et al. (2010) Cell. 141:290-303

## DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)