RAPH1 Polyclonal Antibody

Catalog No	YP-Ab-06027
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	RAPH1 ALS2CR18 ALS2CR9 KIAA1681 LPD PREL2 RMO1
Immunogen	Synthesized peptide derived from human protein . at AA range: 370-450
Specificity	RAPH1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Lamellipodin;KIAA1681;Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 9 protein;Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 18 protein;ALS2CR9;RAPH1;RAPH1 ALS2CR18 ALS2CR9 KIAA1681 LPD PREL2 RMO1;Ras-associated and pleckstrin homology domains-containing protein 1 (RAPH1) (Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 18 protein) (Amyotrophic lateral sclerosis 2 chromosomal
Observed Band	67 kDa
Calculated Molecular Weight	1250 aa, 135 kDa
Cell Pathway	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell projection, lamellipodium . Cell projection, filopodium . Cytoplasm, cytoskeleton . Recruited to the membrane, via the PH domain, by the phosphoinositide, PI(3,4) P2. Colocalizes with ENAH/VASP at the tips of lamellipodia and filopodia. Also colocalizes with the pathogens, Vaccinia and Enteropathogenic E.coli (EPEC) at the interface between the pathogen and their actin.
Tissue Specificity	Isoform RMO1-RAPH1 is ubiquitously expressed with highest levels in brain, heart, ovary and developing embryo. Isoform RMO1 is widely expressed with highest levels in liver. Low expression in B-cells.

Function	function:Mediator of localized membrane signals. Implicated in the regulation of lamellipodial dynamics. Negatively regulates cell adhesion.,induction:Reduced expression in metastatic osteosarcomas compared to primary osteosarcoma tumors. Down-regulated in both breast (43% of tissue samples) and ovarian (25% of tissue samples) cancers.,similarity:Belongs to the MRL family., similarity:Contains 1 PH domain.,similarity:Contains 1 Ras-associating domain., subcellular location:Recruited to the membrane, via the PH domain, by the phosphoinositide, PI(3,4)P2. Colocalizes with ENAH/VASP at the tips of lamellipodia and filopodia. Also colocalizes with the pathogens, Vaccinia and Enteropathogenic E.coli (EPEC) at the interface between the pathogen and their actin.,subunit:Interacts with EVL and VASP and targets them to the leading edge.,tissue specificity:Isoform RMO1-RAPH1 is ubiquitously expresse
Background	This gene encodes a protein that belongs to the Mig10/Rap1-interacting adaptor molecule/Lamellipodin family of adapter proteins, which function in cell migration. Members of this family contain pleckstrin-homology domains, Ras-association domains, and proline-rich C-termini. The protein encoded by this gene regulates actin dynamics through interaction with Ena/Vasodilator proteins as well as direct binding to filamentous actin to regulate actin network assembly. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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