



PLEKHM1 mouse mAb

Catalog No	YP-mAb-19391
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	PLEKHM1 KIAA0356
Immunogen	Synthesized peptide derived from human PLEKHM1. AA range:141-211
Specificity	This antibody detects endogenous levels of PLEKHM1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PLEKHM1 KIAA0356;Pleckstrin homology domain-containing family M member 1 (PH domain-containing family M member 1) (162 kDa adapter protein) (AP162)
Observed Band	
Calculated Molecular Weight	116kD
Cell Pathway	Autolysosome membrane . Endosome membrane . Late endosome membrane . Lysosome membrane . In case of infection colocalizes with Salmonella typhimurium sifA in proximity of Salmonella-containing vacuole (SCV) (PubMed:25500191) . .
Tissue Specificity	Expressed in placenta , liver , prostate , thymus , spleen , ovary , colon , colon carcinoma and peripheral blood lymphocytes (PBL) . Weakly expressed in brain , lung , kidney , and testis. No expression in heart , skeletal muscle , pancreas and small intestine. Predominantly expressed in the breast carcinoma cell line MCF-7.
Function	Acts as a multivalent adapter protein that regulates Rab7-dependent and HOPS complex-dependent fusion events in the endolysosomal system and couples autophagic and the endocytic trafficking pathways. Acts as a dual effector of RAB7A and ARL8B that simultaneously binds these GTPases , bringing about clustering and fusion of late endosomes and lysosomes . Required for late



stages of endolysosomal maturation , facilitating both endocytosis-mediated degradation of growth factor receptors and autophagosome clearance. Interaction with Arl8b is a crucial factor in the terminal maturation of autophagosomes and to mediate autophagosome-lysosome fusion . Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (By similarity) . May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7 . May have a role in sialyl-lex-mediated transduction of apoptotic signals . Involved in bone resorption (By similarity) . ; (Microbial infection) In case of infection contributes to Salmonella typhimurium pathogenesis by supporting the integrity of the Salmonella-containing vacuole (SCV) probably in concert with the HOPS complex and Rab7.

Background

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.

Products Images