မ္မွန္ PLEKHM1 (E9S3Q) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y4G2	Entrez-Gene Id: 9842		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	PLEKHM1 (E9S3Q) Rabbit mAb recognizes endogenous levels of total PLEKHM1 protein. This antibody does not cross-react with Rubicon protein.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro455 of human PLEKHM1 protein.						
Background		Pleckstrin homology domain-containing protein family member 1 (PLEKHM1) is a multivalent endolysosomal adaptor protein that contains an N-terminal RUN domain, two internal PH domains, and a C-terminal C1 domain/zinc-finger-like motif. Research studies have shown that PLEKHM1 plays a role in bone resorption by regulating the acidification of endosomal vesicles of osteoclasts. Loss-of- function mutations in <i>PLEKHM1</i> promote osteoclast failure and impair bone resorption, which leads to osteopetrosis (1-3). Recent studies have shown that PLEKHM1 serves as a nexus for different trafficking pathways of the endolysosomal network by serving as the platform for the recruitment of Rab7, HOPS complex, and LC3/GABARAP family members. Indeed, loss of PLEKHM1 impairs the lysosomal degradation of cell-surface receptors and autophagic clearance of protein aggregates (4,5).						
Background Re	ferences	1. Van Wesenbeeck, L. 2. Del Fattore, A. et al. 3. Fujiwara, T. et al. (20 4. McEwan, D.G. et al. (5. McEwan, D.G. et al. (et al. (2007) <i>J Clin I</i> (2008) <i>J Bone Mine</i> 16) <i>JCI Insight</i> 1, el 2015) <i>Mol Cell</i> 57, 7 2015) <i>Cell Host Mi</i>	nvest 117, 919-30. r Res 23, 380-91. 36330. 39-54. crobe 17, 58-71.				
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	≥y	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
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