## #77092 Store at -20C

## PLEKHM1 (E9S3Q) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> WB, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y4G2	Entrez-Gene Id: 9842	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imi	munoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens		PLEKHM1 (E9S3Q) Rabbit mAb recognizes endogenous levels of total PLEKHM1 protein. This antibody does not cross-react with Rubicon protein.					
Source / Purificat	/ Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro455 of human PLEKHM1 protein.					esponding to	
Background	end C-te bon mut oste path com	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 Refe	2. D 3. F 4. N	el Fattore, A. et al. ( ujiwara, T. et al. (20 IcEwan, D.G. et al. (	2008) J Bone Mi 16) JCI Insight 1, (2015) Mol Cell 5	•			

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

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 Key** 

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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