

Rabbit EPN1 Polyclonal Antibody | anti-EPN1 antibody

EPN1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321195	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

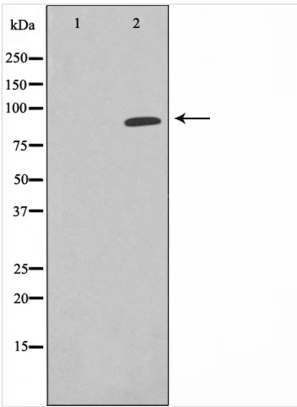
PRODUCT SYNONYMS

EPN1; Polyclonal Antibody; EPN1 Antibody; EH domain binding mitotic phosphoprotein; EH domain-binding mitotic phosphoprotein; EPN 1; Epn1; EPN1_HUMAN; EPS 15 interacting protein 1; EPS-15-interacting protein 1; Epsin 1; Epsin-1; anti-EPN1 antibody

PRODUCT SPECIFICATIONS

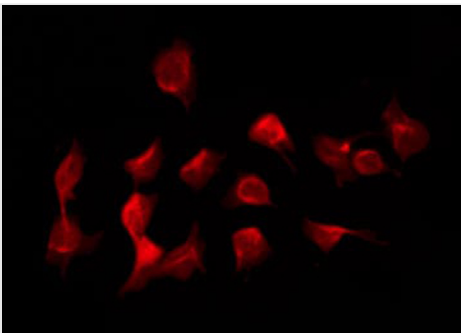
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EPN1 antibody detects endogenous levels of EPN1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	662
Applicable Applications for anti-EPN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPN1
Subcellular Location	Cytoplasm. Cell Membrane. Nucleus. Membrane > Clathrin-Coated Pit. Associated with the cytoplasmic membrane at sites where clathrin-coated pits are forming. Colocalizes with clathrin and AP-2 in a punctate pattern on the plasma membrane. Detected in presynaptic nerve terminals and in Golgi stacks. May shuttle to the nucleus when associated with ZBTB16/ZNF145.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis on K562 cell lysate using EPN1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321195 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EPN1 antibody

Description: EPN1 is an endocytic accessory protein that interacts with EPS15 (MIM 600051), the alpha subunit of the clathrin adaptor AP2 (AP2A1; MIM 601026), and clathrin (see MIM 118960), as well as with other accessory proteins for the endocytosis of clathrin-coated vesicles.[supplied by OMIM]

Function: Binds to membranes enriched in phosphatidylinositol 4, 5-bisphosphate (PtdIns(4, 5)P2). Modifies membrane curvature and facilitates the formation of clathrin-coated invaginations (By similarity). Regulates receptor-mediated endocytosis.

Subunit Structure: Monomer. Binds clathrin, ZBTB16/ZNF145 and ITSN1 (By similarity). Binds ubiquitinated proteins (By similarity). Binds REPS2, EPS15, AP2A1 and AP2A2. Interacts with RALBP1 in a complex also containing NUMB and TFAP2A during interphase and mitosis. Interacts with AP2B1. Interacts with UBQLN2.

Post-translational Modifications: Phosphorylated on serine and/or threonine residues in mitotic cells. Phosphorylation reduces interaction with REPS2, AP-2 and the membrane fraction. Depolarization of synaptosomes results in dephosphorylation. Ubiquitinated.

Similarity: The NPF repeat domain is involved in EPS15 binding.The DPW repeat domain is involved in AP2A2 and clathrin binding.The [DE]-X(1, 2)-F-X-X-[FL]-X-X-X-R motif mediates interaction with the AP-2 complex subunit AP2B1. Belongs to the epsin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194272148
NCBI GeneID	29924
NCBI Accession #	NP_001123543.1
NCBI GenBank Nucleotide #	NM_001130071.1
UniProt Accession #	Q9Y6I3; Q86ST3; Q9HA18
Molecular Weight	Observed: 85 kDa Predicted: 61 kDa
NCBI Official Full Name	epsin-1 isoform a
NCBI Official Synonym Full Names	epsin 1
NCBI Official Symbol	EPN1
NCBI Protein Information	epsin-1
UniProt Protein Name	Epsin-1
UniProt Gene Name	EPN1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/epn1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321195>