SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Epsin 1/FITC Conjugated antibody

Catalog Number: SL13101R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Epsin 1/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Epsin 1/EPN1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.
Applications:	ICC/IF=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Horse,Sheep)
Subcellular Location:	The cell membrane
Background:	background: Epsin 1 is an endocytic accessory protein, with significant similarity to the Xenopus mitotic phosphoprotein MP90. Epsin 1 interacts with Eps15 (the ?subunit of the Clathrin adaptor AP2), Clathrin and other accessory proteins. The mitotic phosphorylation of these proteins may be one of the mechanisms by which the invagination of Clathrin-coated pits is blocked in mitosis. Both Epsin and Eps15, like other cytosolic components of the synaptic vesicle endo-cytic machinery, undergo constitutive phosphorylation and depolarization-dependent dephosphorylation in nerve terminals. Epsin 1 also contributes to the mechanism of Clathrin-vesicle-dependent endocytosis. The human Epsin 1 protein contains an Epsin N-terminal homology (ENTH) region and a single Clathrin-binding (LVDLD) motif. Epsin 1 localizes to the leading edge of a vesicular coated pit where the membrane is being actively bent.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Epsin 1 is a cytosolic adaptor protein and interacting partner for the EH domain containing region of Eps15. It is involved in the regulation of clathrin mediated endocytosis via its direct interactions with clathrin, the clathrin adaptor AP-2, and Eps15. Epsin 1 is a cargo specific adaptor for influenza virus entry through the clathrin mediated pathway. In addition to being a clathrin interacting protiein, Epsin 1 is also an ubiquitin, and phospholipid interacting protein. It also may function in a signaling pathway connecting the endocytic machinery to the regulation of nuclear function. **Subunit:** Monomer. Binds clathrin, ZBTB16/ZNF145 and ITSN1. 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. [SUBCELLULAR LOCATION] **Subcellular Location:** Cytoplasm (By similarity). Cell membrane; Peripheral membrane protein (By similarity). Nucleus (By similarity). Membrane, clathrin-coated pit (By similarity). Note=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 (By similarity). **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 (By similarity). **Similarity:** Belongs to the epsin family. Contains 1 ENTH (epsin N-terminal homology) domain. Contains 3 UIM (ubiquitin-interacting motif) repeats. **Database links:** **Entrez Gene:** 29924 Human **Entrez Gene:** 13854 Mouse **Entrez Gene:** 117277 Rat Omim: 607262 Human **SwissProt:** Q9Y6I3 Human **SwissProt:** Q80VP1 Mouse **SwissProt:** O88339 Rat **Unigene:** 279953 Human **Unigene:** 3091 Mouse **Unigene:** 30007 Rat Important

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