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EPN1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2000a

Product Information

Application	WB, FC, E
Primary Accession	Q9Y6I3
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6F7F9
Isotype	IgG1
Calculated MW	60293
Description	The protein encoded by this gene binds clathrin and is involved in the endocytosis of clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human EPN1 (AA: 106-254) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	29924
Other Names	Epsin-1, EH domain-binding mitotic phosphoprotein, EPS-15-interacting protein 1, EPN1
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EPN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EPN1
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 (PubMed:10393179, PubMed:10557078).

Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein. Nucleus. Membrane, clathrin-coated pit 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).

References

1. J Biol Chem. 2011 Nov 25;286(47):40760-70. 2. Traffic. 2009 Feb;10(2):235-45.

Images

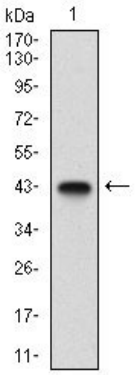

Figure 1: Western blot analysis using EPN1 mAb against human EPN1 (AA: 106-254) recombinant protein. (Expected MW is 42.4 kDa)

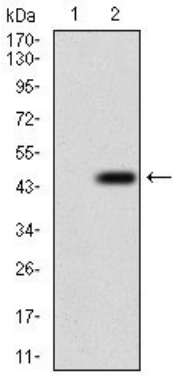

Figure 2: Western blot analysis using EPN1 mAb against HEK293 (1) and EPN1 (AA: 106-254)-hIgGFc transfected HEK293 (2) cell lysate.

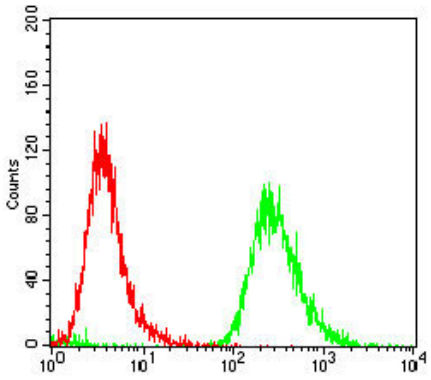

Figure 3: Flow cytometric analysis of A431 cells using EPN1 mouse mAb (green) and negative control (red).