10320 Camino Santa Fe, Suite G
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EPN1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2000a

Specification

EPN1 Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	Q9Y6I3
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**60.3kDa KDa**

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.

EPN1 Antibody - Additional Information

Gene ID 29924

Other Names
Epsin-1, EH domain-binding mitotic phosphoprotein, EPS-15-interacting protein 1, EPN1

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400

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.

EPN1 Antibody - Protein Information

Name EPN1

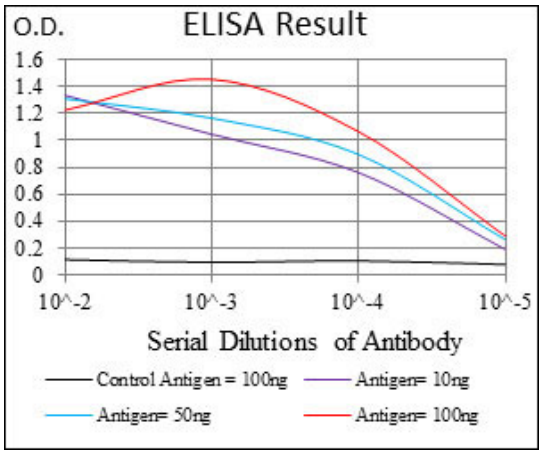
Function
Binds to membranes enriched in phosphatidylinositol 4,5- bisphosphate (PtdIns(4,5)P2). Modifies membrane curvature and facilitates the formation of clathrin-coated invaginations (By similarity). Regulates receptor-mediated endocytosis (PubMed:10557078, PubMed:10393179).

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).

EPN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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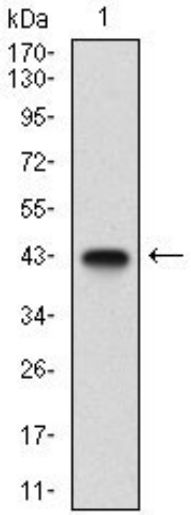


Figure 1: Western blot analysis using EPN1 mAb against human EPN1 (AA: 106-254) recombinant protein. (Expected MW is 42.4 kDa)

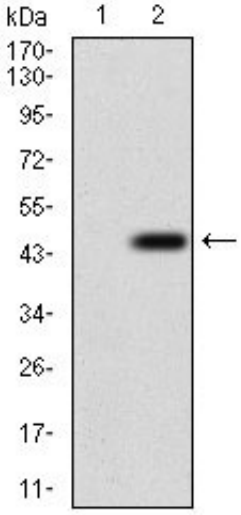


Figure 2: Western blot analysis using EPN1 mAb against HEK293 (1) and EPN1 (AA: 106-254)-hIgGFc transfected HEK293 (2) cell lysate.

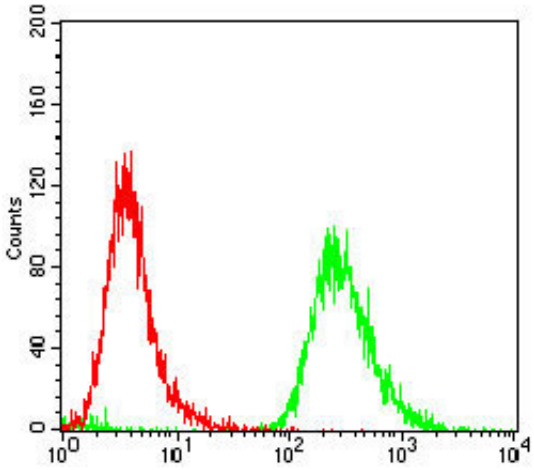


Figure 3: Flow cytometric analysis of A431 cells using EPN1 mouse mAb (green) and negative control (red).

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EPN1 Antibody - References

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