

EPN1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2000a**Specification****EPN1 Antibody - Product Information**

Application	WB, FC, E
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

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.

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:10393179, PubMed:10557078).

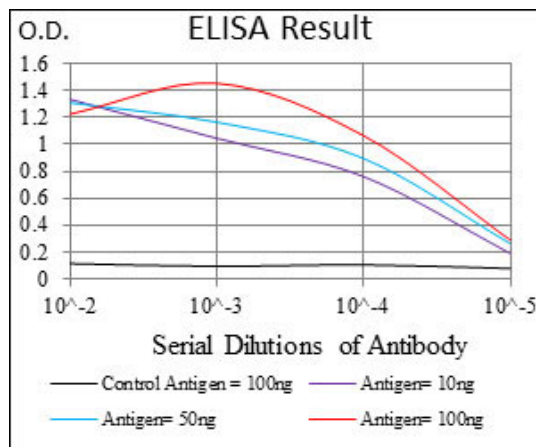
Cellular Location

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).

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 Cytometry](#)
- [Cell Culture](#)



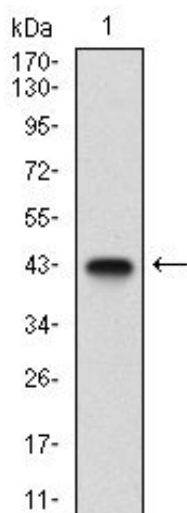


Figure 1: Western blot analysis using EPN1 mAb against human EPN1 (AA: 106-254) recombinant protein. (Expected MW is 42.4 kDa)

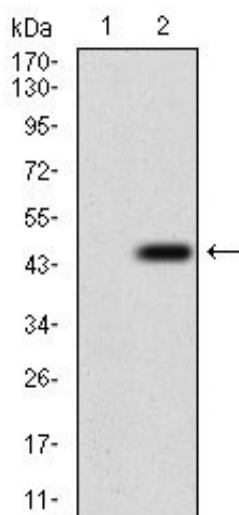


Figure 2: Western blot analysis using EPN1 mAb against HEK293 (1) and EPN1 (AA: 106-254)-hlgGfC transfected HEK293 (2) cell lysate.

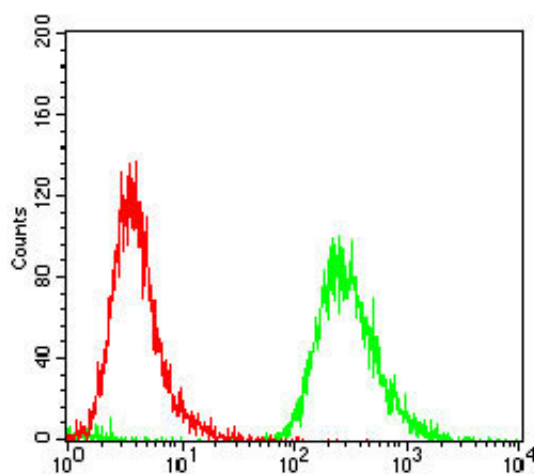


Figure 3: Flow cytometric analysis of A431 cells using EPN1 mouse mAb (green) and negative control (red).

EPN1 Antibody - References

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