



Datasheet for ABIN968746
anti-HIP1R antibody (AA 560-772)



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Overview

Quantity:	50 µg
Target:	HIP1R
Binding Specificity:	AA 560-772
Reactivity:	Human, Rat, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Hip1R aa. 560-772
Clone:	44-Hip1R
Isotype:	IgG1
Cross-Reactivity:	Human, Dog (Canine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: HIP1R

Alternative Name: Hip1R ([HIP1R Products](#))

Background: Clathrin is the major protein component in the coat formed around pits and vesicles involved in receptor-mediated endocytosis. Clathrin forms a non-covalently bound triskelion structure composed of three heavy chains (192kDa each) and three light chains (23-25kDa each). A variety of proteins facilitate receptor-mediated endocytosis through association with clathrin-coated vesicles. Huntingtin interacting protein 1 (Hip1) is an actin-binding protein that interacts with Huntingtin protein, and has been implicated in vesicular transport defects found in Huntingtin's disease. Hip1 related protein (Hip1R) is another actin binding protein that contains an epsin NH2-terminal homology (ENTH) domain, three coiled-coil regions, a leucine zipper, and a talin-like actin binding domain. Hip1R mRNA is widely expressed, and Hip1R protein is enriched in the cell cortex and perinuclear region. The ENTH domain of Hip1R is required for binding to phosphatidylinositol-4,5-bisphosphate, and this complex is essential for clathrin-mediated endocytosis. In addition, Hip1R colocalizes with clathrin, AP-2 and endocytosed transferrin. Thus, Hip1R may facilitate interactions between clathrin-coated pits and actin during endocytosis.

Molecular Weight: 120 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

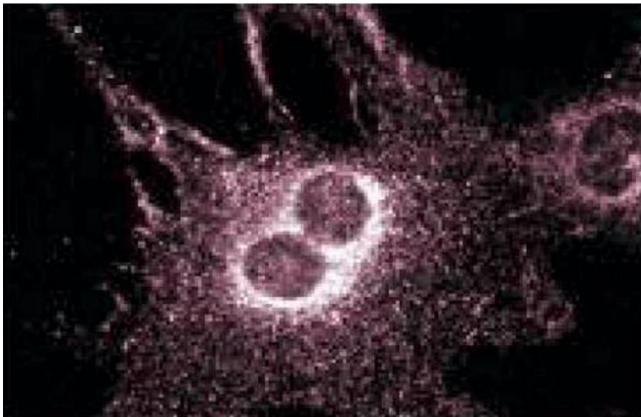
Product cited in:

Itoh, Koshiba, Kigawa, Kikuchi, Yokoyama, Takenawa: "Role of the ENTH domain in phosphatidylinositol-4,5-bisphosphate binding and endocytosis." in: **Science (New York, N.Y.)**, Vol. 291, Issue 5506, pp. 1047-51, (2001) ([PubMed](#)).

Engqvist-Goldstein, Kessels, Chopra, Hayden, Drubin: "An actin-binding protein of the Sla2/Huntingtin interacting protein 1 family is a novel component of clathrin-coated pits and vesicles." in: **The Journal of cell biology**, Vol. 147, Issue 7, pp. 1503-18, (2000) ([PubMed](#)).

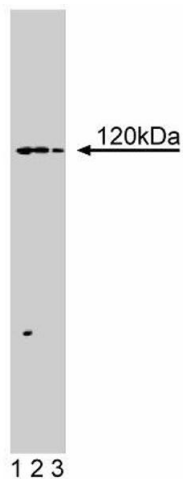
Seki, Muramatsu, Sugano, Suzuki, Nakagawara, Ohhira, Hayashi, Hori, Saito: "Cloning, expression analysis, and chromosomal localization of HIP1R, an isolog of huntingtin interacting protein (HIP1)." in: **Journal of human genetics**, Vol. 43, Issue 4, pp. 268-71, (1999) ([PubMed](#)).

Images



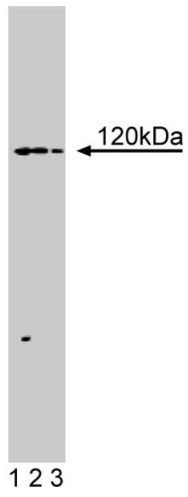
Immunofluorescence

Image 1. Immunofluorescent staining of BC3H1 cells.



Western Blotting

Image 2. Western blot analysis of Hip1R on BC3H1 lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Hip1R.



Western Blotting

Image 3.