Technical Data Sheet

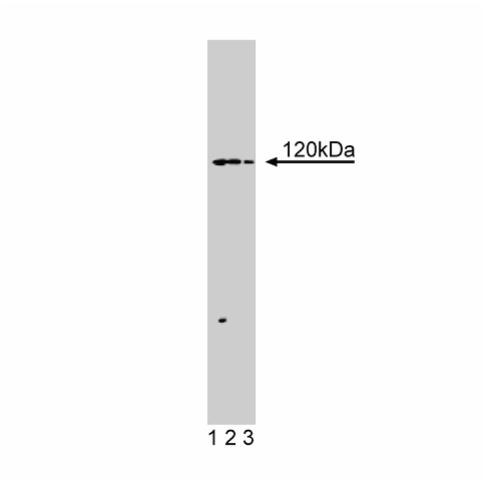
Purified Mouse Anti-Hip1R

Product Information

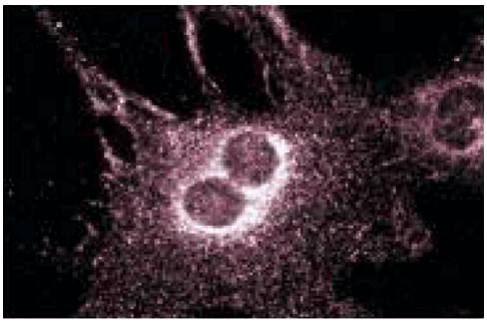
Material Number:	**612118**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	44/Hip1R
Immunogen:	Mouse Hip1R aa. 560-772
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Dog, Rat
Target MW:	120 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

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.



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



Immunofluorescent staining of BC3H1 cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Engqvist-Goldstein AE, Kessels MM, Chopra VS, Hayden MR, Drubin DG. An actin-binding protein of the Sla2/Huntingtin interacting protein 1 family is a novel component of clathrin-coated pits and vesicles. *J Cell Biol.* 1999; 147(7):1503-1518.(Biology)

Itoh T, Koshiba S, Kigawa T, Kikuchi A, Yokoyama S, Takenawa T. Role of the ENTH domain in phosphatidylinositol-4,5-bisphosphate binding and endocytosis. *Science.* 2001; 291(5506):1047-1051.(Biology)

Seki N, Muramatsu M, Sugano S. Cloning, expression analysis, and chromosomal localization of HIP1R, an isolog of huntingtin interacting protein (HIP1). *J Hum Genet.* 1998; 43(4):268-271.(Biology)