10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

HIP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HIP1.

Catalog # AT2370a

Specification

HIP1 Antibody (monoclonal) (M01) - Product Information

Application	**IP, WB, IHC, E**
Primary Accession	O00291
Other Accession	NM_005338
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**116221**

HIP1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 3092

Other Names
Huntingtin-interacting protein 1, HIP-1, Huntingtin-interacting protein I, HIP-I, HIP1

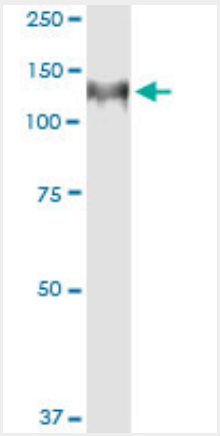
Target/Specificity
HIP1 (NP_005329, 928 a.a. ~ 1037 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

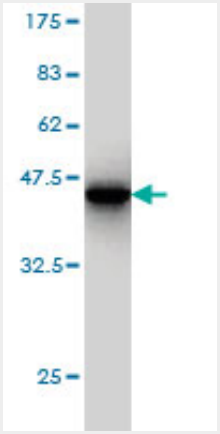
Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
HIP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.



Immunoprecipitation of HIP1 transfected lysate using anti-HIP1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with HIP1 MaxPab rabbit polyclonal antibody.



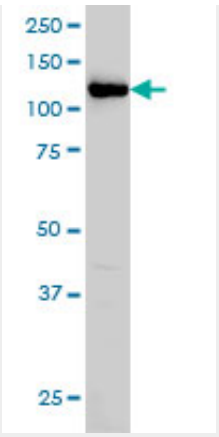
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

HIP1 Antibody (monoclonal) (M01) - Protocols

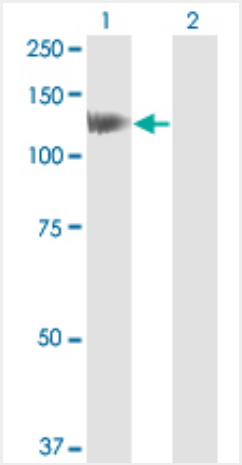
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

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

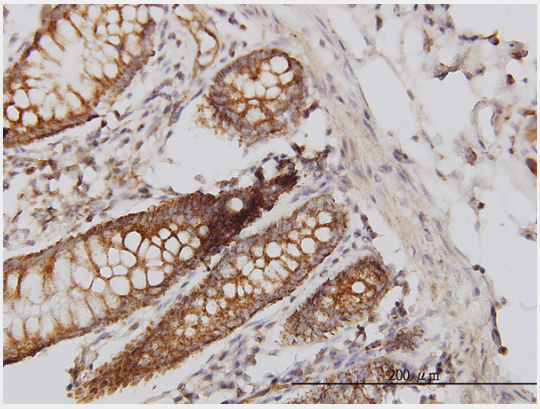


HIP1 monoclonal antibody (M01), clone 1F12 Western Blot analysis of HIP1 expression in HeLa ((Cat # AT2370a)



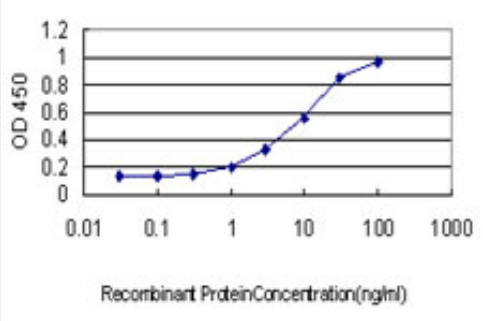
Western Blot analysis of HIP1 expression in transfected 293T cell line by HIP1 monoclonal antibody (M01), clone 1F12.

Lane 1: HIP1 transfected lysate(116.2 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to HIP1 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3

ug/ml]



Detection limit for recombinant GST tagged HIP1 is approximately 0.3ng/ml as a capture antibody.

HIP1 Antibody (monoclonal) (M01) - Background

The product of this gene is a membrane-associated protein that colocalizes with huntingtin. This protein has similarities to cytoskeleton proteins and its interaction with huntingtin is thought to play a functional role in the cell filament network. Loss of normal huntingtin-HIP1 interaction in Huntington disease may contribute to a defect in membrane-cytoskeletal integrity in the brain. This gene could help in the understanding of the normal function of huntingtin and also the pathogenesis of Huntington disease. It also has been implicated in the pathogenesis of hematopoietic malignancies. An alternative splice variant of this gene has been described but its full length sequence has not been determined.

HIP1 Antibody (monoclonal) (M01) - References

Accommodation of structural rearrangements in the huntingtin-interacting protein 1 coiled-coil domain. Wilbur JD, et al. Acta Crystallogr D Biol Crystallogr, 2010 Mar. PMID 20179344.Genome-wide association study in a Chinese Han population identifies nine new susceptibility loci for systemic lupus erythematosus. Han JW, et al. Nat Genet, 2009 Nov. PMID 19838193.HIP1 exhibits an early recruitment and a late stage function in the maturation of coated pits. Gottfried I, et al. Cell Mol Life Sci, 2009 Sep. PMID 19626275.Actin binding by Hip1 (huntingtin-interacting protein 1) and Hip1R (Hip1-related protein) is

regulated by clathrin light chain. Wilbur JD, et al. J Biol Chem, 2008 Nov 21. PMID 18790740.Crystal structure at 2.8 A of Huntingtin-interacting protein 1 (HIP1) coiled-coil domain reveals a charged surface suitable for HIP1 protein interactor (HIPPI). Niu Q, et al. J Mol Biol, 2008 Feb 1. PMID 18155047.