

HIP1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14184c**Specification**

HIP1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O00291](#)**HIP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3092**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HIP1 Antibody (Center) Blocking Peptide - Protein Information**Name** HIP1**Function**

Plays a role in clathrin-mediated endocytosis and trafficking (PubMed:11532990, PubMed:11577110, PubMed:11889126). Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner (By similarity). Regulates presynaptic nerve terminal activity (By similarity). Enhances androgen receptor (AR)- mediated transcription (PubMed:16027218). May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway (PubMed:11007801). Binds 3-phosphoinositides (via ENTH domain) (PubMed:14732715). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis (PubMed:14732715). May play a functional role in the cell filament networks (PubMed:18790740). May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors

(PubMed:11007801,
PubMed:12163454).

Cellular Location

Cytoplasm. Nucleus. Endomembrane system. Cytoplasmic vesicle, clathrin-coated vesicle membrane. Note=Shuttles between cytoplasm and nucleus. Nuclear translocation can be induced by AR

Tissue Location

Ubiquitously expressed with the highest level in brain. Expression is up-regulated in prostate and colon cancer

HIP1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HIP1 Antibody (Center) Blocking Peptide - Images**HIP1 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - References

Wilbur, J.D., et al. Acta Crystallogr. D Biol. Crystallogr. 66 (PT 3), 314-318 (2010) :Han, J.W., et al. Nat. Genet. 41(11):1234-1237(2009)Gottfried, I., et al. Cell. Mol. Life Sci. 66(17):2897-2911(2009)Wilbur, J.D., et al. J. Biol. Chem. 283(47):32870-32879(2008)Niu, Q., et al. J. Mol. Biol. 375(5):1197-1205(2008)