

Datasheet for ABIN968461

anti-HAP1 antibody (AA 100-289)

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Overview

Quantity:	50 µg
Target:	HAP1
Binding Specificity:	AA 100-289
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat HAP1-A aa. 100-289
Clone:	1-HAP1
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	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

Product Details

chromatography.

Target Details

Target:	HAP1
Alternative Name:	HAP1 (HAP1 Products)
Background:	Huntington's disease (HD) is an autosomal dominant neurodegenerative disorder caused by an expanding polyglutamine repeat in the IT15 or huntingtin gene. The mechanism(s) of pathogenesis are not known and the wide expression of Huntingtin protein does not explain the selective neuropathology of HD. HAP-1 (Huntingtin-associated protein 1), identified by yeast two hybrid screening, interacts with the huntingtin protein. There are two isoforms of rat HAP1 (HAP1-A and HAP1-B) which differ in the length of their C-terminal regions. Both proteins are highly hydrophilic and their binding to the Huntingtin protein is enhanced by the expanded polyglutamine repeat. Human HAP1 shares 62% amino acid identity with HAP1-A. HAP1 is specifically expressed in the CNS where it is restricted to limbic structures, such as amygdala, hypothalamus, bed nucleus of the stria terminalis, and the septal nucleus. The subcellular association of HAP1 with microtubules and many types of membraneous organelles implicates it in vesicular transport. Thus, the specific neural interaction of HAP1 with Huntingtin protein may lead to abnormalities in vesicular transport that cause the neuropathology of HD. This antibody is routinely tested by western blot analysis. Synonyms: Huntingtin Associated Protein 1
Molecular Weight:	85/98 kDa
Pathways:	Cell RedoxHomeostasis , Smooth Muscle Cell Migration , Positive Regulation of Response to DNA Damage Stimulus

Application Details

Comment:	Related Products: ABIN968545 , ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Handling

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:

Li, Chin, Levey, Li: "Huntingtin-associated protein 1 interacts with hepatocyte growth factor-regulated tyrosine kinase substrate and functions in endosomal trafficking." in: **The Journal of biological chemistry**, Vol. 277, Issue 31, pp. 28212-21, (2002) ([PubMed](#)).

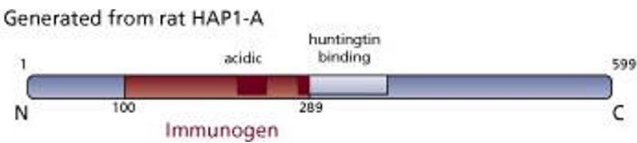
Gutekunst, Li, Yi, Ferrante, Li, Hersch: "The cellular and subcellular localization of huntingtin-associated protein 1 (HAP1): comparison with huntingtin in rat and human." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 18, Issue 19, pp. 7674-86, (1998) ([PubMed](#)).

Li, Hosseini, Gutekunst, Hersch, Ferrante, Li: "A human HAP1 homologue. Cloning, expression, and interaction with huntingtin." in: **The Journal of biological chemistry**, Vol. 273, Issue 30, pp. 19220-7, (1998) ([PubMed](#)).

Li, Sharp, Li, Dawson, Snyder, Ross: "Huntingtin-associated protein (HAP1): discrete neuronal localizations in the brain resemble those of neuronal nitric oxide synthase." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 93, Issue 10, pp. 4839-44, (1996) ([PubMed](#)).

Li, Li, Sharp, Nucifora, Schilling, Lanahan, Worley, Snyder, Ross: "A huntingtin-associated protein enriched in brain with implications for pathology." in: **Nature**, Vol. 378, Issue 6555, pp. 398-402, (1995) ([PubMed](#)).

Image 1.



Western Blotting

Image 2. Western blot analysis of HAP1 on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- HAP1 antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of PC12 cells (rat neuroblastoma, ATCC CRL 1721).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968461.