

Rabbit HAP1 Polyclonal Antibody | anti-HAP1 antibody

Anti-HAP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125615	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

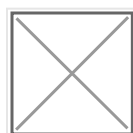
PRODUCT SYNONYMS

HAP1; Polyclonal Antibody; Anti-HAP1 Antibody; HAP2; HLP1; Huntingtin-associated protein 1; HAP-1; Neuroan 1; huntingtin associated protein 1; anti-HAP1 antibody

PRODUCT SPECIFICATIONS

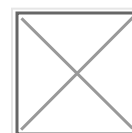
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HAP1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-HAP1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human HAP1 recombinant protein (Position: M1-R671).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-HAP1 antibody (AAA125615). Overlay histogram showing U937 cells stained with AAA125615 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HAP1 Antibody (AAA125615, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of HAP1 using anti-HAP1 antibody (AAA125615). HAP1 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-HAP1 Antibody (AAA125615) overnight at 4 degree C. DyLight[®]488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of HAP1 using anti-HAP1 antibody (AAA125615). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat liver tissue lysates Lane 2: mouse liver tissue lysates Lane 3: mouse Neuro-2a whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HAP1 antigen affinity purified polyclonal antibody (Catalog # AAA125615) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HAP1 at approximately 80KD. The expected band size for HAP1 is at 80KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HAP1 antibody	Huntingtin-associated protein 1 (HAP1) is a protein which in humans is encoded by the HAP1 gene. Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with huntingtin, with two cytoskeletal proteins (dynactin and pericentriolar autoantigen protein 1), and with a hepatocyte growth factor-regulated tyrosine kinase substrate. The interactions with cytoskeletal proteins and a kinase substrate suggest a role for this protein in vesicular trafficking or organelle transport. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene.
References	- Bertaux, F., Sharp, A. H., Ross, C. A., Lehrach, H., Bates, G. P., Wanker, E. HAP1-huntingtin interactions do not contribute to the molecular pathology in Huntington's disease transgenic mice. <i>FEBS Lett.</i> 426: 229-232, 1998. - Chan, E. Y. W., Nasir, J., Gutekunst, C. -A., Coleman, S., Maclean, A., Maas, A., Metzler, M., Gertsenstein, M., Ross, C. A., Nagy, A., Hayden, M. R. Targeted disruption of Huntingtin-associated protein-1 (Hap1) results in postnatal death due to depressed feeding behavior. <i>Hum. Molec. Genet.</i> 11: 945-959, 2002. - Dragatsis, I., Zeitlin, S., Dietrich, P. Huntingtin-associated protein 1 (Hap1) mutant mice bypassing the early postnatal lethality are neuroanatomically normal and fertile but display growth retardation. <i>Hum. Molec. Genet.</i> 13: 3115-3125, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10241694
NCBI GeneID	9001
UniProt Accession #	P54257 ; O75358 ; Q59GK4 ; Q9H4G3 ; Q9HA98 ; Q9NY90 ; A8MQB5
Molecular Weight	67,582 Da
NCBI Official Full Name	huntingtin-associated protein 1
NCBI Official Synonym Full Names	huntingtin-associated protein 1
NCBI Official Symbol	HAP1
NCBI Official Synonym Symbols	HLP; HAP2; HIP5; hHLP1
NCBI Protein Information	huntingtin-associated protein 1; HAP-1; neuroan 1; huntingtin-associated protein 2
UniProt Protein Name	Huntingtin-associated protein 1
UniProt Gene Name	HAP1
UniProt Synonym Gene Names	HAP2; HLP1; HAP-1
UniProt Entry Name	HAP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hap1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125615>