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Datasheet for ABIN7155933  
**anti-HAP1 antibody (AA 328-580)**

1 Image

### Overview

Quantity:	100 µL
Target:	HAP1
Binding Specificity:	AA 328-580
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HAP1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant Human Huntingtin-associated protein 1 protein (328-580AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	HAP1
Alternative Name:	HAP1 ( <a href="#">HAP1 Products</a> )
Background:	Background: Originally identified as neuronal protein that specifically associates with HTT/huntingtin and the binding is enhanced by an expanded polyglutamine repeat within HTT

## Target Details

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possibly affecting HAP1 interaction properties. Both HTT and HAP1 are involved in intracellular trafficking and HAP1 is proposed to link HTT to motor proteins and/or transport cargos. Seems to play a role in vesicular transport within neurons and axons such as from early endosomes to late endocytic compartments and to promote neurite outgrowth. The vesicular transport function via association with microtubule-dependent transporters can be attenuated by association with mutant HTT. Involved in the axonal transport of BDNF and its activity-dependent secretion, the function seems to involve HTT, DCTN1 and a complex with SORT1. Involved in APP trafficking and seems to facilitate APP anterograde transport and membrane insertion thereby possibly reducing processing into amyloid beta. Involved in delivery of gamma-aminobutyric acid (GABA(A)) receptors to synapses, the function is dependent on kinesin motor protein KIF5 and is disrupted by HTT with expanded polyglutamine repeat. Involved in regulation of autophagosome motility by promoting efficient retrograde axonal transport. Seems to be involved in regulation of membrane receptor recycling and degradation, and respective signal transduction, including GABA(A) receptors, tyrosine kinase receptors, EGFR, IP3 receptor and androgen receptor. Among others suggested to be involved in control of feeding behavior (involving hypothalamic GABA(A) receptors), cerebellar and brainstem development (involving AHI1 and NTRK1/TrkA), postnatal neurogenesis (involving hypothalamic NTRK2/TrkB), and ITPR1/InsP3R1-mediated Ca(2+) release (involving HTT and possibly the effect of mutant HTT). Via association with DCTN1/dynactin p150-glued and HTT/huntingtin involved in cytoplasmic retention of REST in neurons. May be involved in ciliogenesis. Involved in regulation of exocytosis. Seems to be involved in formation of cytoplasmic inclusion bodies (STBs). In case of anomalous expression of TBP, can sequester a subset of TBP into STBs, sequestration is enhanced by an expanded polyglutamine repeat within TBP. HAP1-containing STBs have been proposed to play a protective role against neurodegeneration in Huntington disease (HD) and spinocerebellar ataxia 17 (SCA17).

Aliases: HAP 1 antibody, HAP 1A antibody, HAP 2 antibody, HAP-1 antibody, Hap1 antibody, HAP1\_HUMAN antibody, HAP2 antibody, HAPP antibody, hHAP1 antibody, hHLP1 antibody, HIP 5 antibody, HIP5 antibody, HLP antibody, HLP1 antibody, Huntingtin associated protein 1A antibody, Huntingtin-associated protein 1 antibody, huntingtin-associated protein 2 antibody, Neuroan 1 antibody, Neuroan1 antibody, OTTHUMP00000164746 antibody, OTTHUMP00000164747 antibody, OTTHUMP00000232821 antibody, OTTHUMP00000232822 antibody

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UniProt: [P54257](#)

Pathways: [Cell RedoxHomeostasis](#), [Smooth Muscle Cell Migration](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

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Application Notes: Recommended dilution: IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

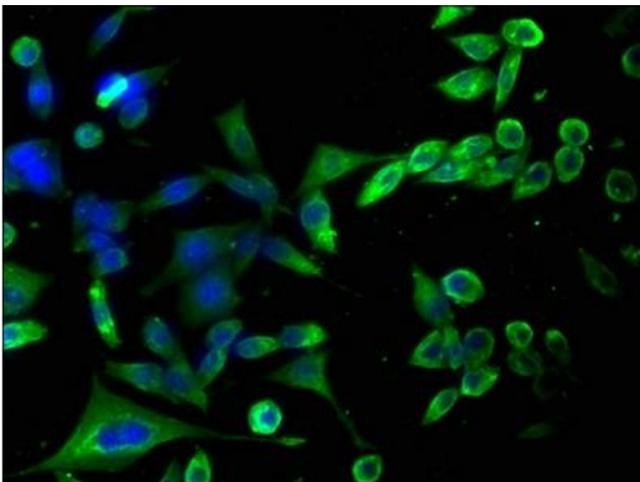
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images

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### Immunofluorescence

**Image 1.** Immunofluorescence staining of SH-SY5Y cells with ABIN7155933 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).