

Datasheet for ABIN7554070 HAP1 Protein (AA 1-671) (His tag)



Overview

Quantity:	1 mg
Target:	HAP1
Protein Characteristics:	AA 1-671
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HAP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HAP1 Protein expressed in mammalian cells.
Sequence:	MRPKRLGRCC AGSRLGPGDP AALTCAPSPS ASPAPEPSAQ PQARGTGQRV GSRATSGSQF
	LSEARTGARP ASEAGAKAGA RRPSAFSAIQ GDVRSMPDNS DAPWTRFVFQ GPFGSRATGR
	GTGKAAGIWK TPAAYVGRRP GVSGPERAAF IRELEEALCP NLPPPVKKIT QEDVKVMLYL
	LEELLPPVWE SVTYGMVLQR ERDLNTAARI GQSLVKQNSV LMEENSKLEA LLGSAKEEIL
	YLRHQVNLRD ELLQLYSDSD EEDEDEEEEE EEKEAEEEQE EEEAEEDLQC AHPCDAPKLI
	SQEALLHQHH CPQLEALQEK LRLLEEENHQ LREEASQLDT LEDEEQMLIL ECVEQFSEAS
	QQMAELSEVL VLRLENYERQ QQEVARLQAQ VLKLQQRCRM YGAETEKLQK QLASEKEIQM
	QLQEESVWVG SQLQDLREKY MDCGGMLIEM QEEVKTLRQQ PPVSTGSATH YPYSVPLETL
	PGFQETLAEE LRTSLRRMIS DPVYFMERNY EMPRGDTSSL RYDFRYSEDR EQVRGFEAEE
	GLMLAADIMR GEDFTPAEEF VPQEELGAAK KVPAEEGVME EAELVSEETE GWEEVELELD
	EATRMNVVTS ALEASGLGPS HLDMNYVLQQ LANWQDAHYR RQLRWKMLQK GECPHGALPA
	ASRTSCRSSC R Sequence without tag. The proposed Purification-Tag is based on

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	experiences with the expression system, a different complexity of the protein could make
	another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	HAP1
Alternative Name:	HAP1 (HAP1 Products)
Background:	Huntingtin-associated protein 1 (HAP-1) (Neuroan 1),FUNCTION: Originally identified as
	neuronal protein that specifically associates with HTT/huntingtin and the binding is enhanced
	by an expanded polyglutamine repeat within HTT 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

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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 Huntigton
disease (HD) and spinocerebellar ataxia 17 (SCA17). {ECO:0000269 PubMed:18922795}.

Molecular Weight:	75.5 kDa
UniProt:	P54257
Pathways:	Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to
	DNA Damage Stimulus

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months