abcam

Product datasheet

Recombinant Human Huntingtin protein (Tagged) ab112300

1 Image

Description

Product name	Recombinant Human Huntingtin protein (Tagged)
Biological activity	useful for Antibody Production and Protein Array
Expression system	Wheat germ
Accession	P42858
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	AVAEEPLHRPKKELSATKKDRVNHCLTICENIVAQSVRNS PEFQKLLGIA MELFLLCSDDAESDVRMVADECLNKVIKALMDSNLPRLQ LELYKEIKKNG APRSLRAALW
Predicted molecular weight	38 kDa including tags
Amino acids	81 to 190
Tags	GST tag N-Terminus
Additional sequence information	NP_002102

Specifications

Our **Abpromise guarantee** covers the use of **ab112300** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA
	SDS-PAGE
	Western blot
Form	Liquid
Additional notes	Useful for Antibody Production and Protein Array

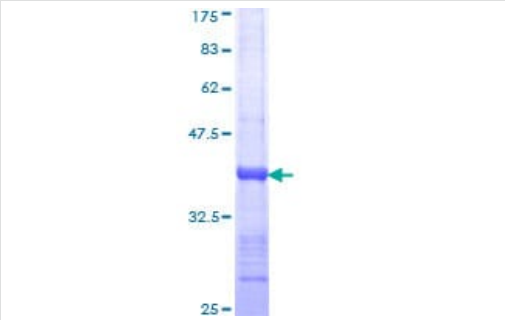
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl Glutathione is reduced

General Info

Function	May play a role in microtubule-mediated transport or vesicle function.
Tissue specificity	Expressed in the brain cortex (at protein level). Widely expressed with the highest level of expression in the brain (nerve fibers, varicosities, and nerve endings). In the brain, the regions where it can be mainly found are the cerebellar cortex, the neocortex, the striatum, and the hippocampal formation.
Involvement in disease	Defects in HTT are the cause of Huntington disease (HD) [MIM:143100]. HD is an autosomal dominant neurodegenerative disorder characterized by involuntary movements (chorea), general motor impairment, psychiatric disorders and dementia. Onset of the disease occurs usually in the third or fourth decade of life and symptoms progressively worsen leading to death in 10 to 20 years. Onset and clinical course depend on the degree of poly-Gln repeat expansion, longer expansions resulting in earlier onset and more severe clinical manifestations. HD affects 1 in 10,000 individuals of European origin. Neuropathology of Huntington disease displays a distinctive pattern with loss of neurons, especially in the caudate and putamen (striatum).
Sequence similarities	Belongs to the huntingtin family. Contains 10 HEAT repeats.
Domain	The N-terminal Gln-rich and Pro-rich domain has great conformational flexibility and is likely to exist in a fluctuating equilibrium of alpha-helical, random coil, and extended conformations.
Post-translational modifications	Cleaved by apopain downstream of the polyglutamine stretch. The resulting N-terminal fragment is cytotoxic and provokes apoptosis. Forms with expanded polyglutamine expansion are specifically ubiquitinated by SYVN1, which promotes their proteasomal degradation.
Cellular localization	Cytoplasm. Nucleus. The mutant Huntingtin protein colocalizes with AKAP8L in the nuclear matrix of Huntington's disease neurons.

Images



SDS-PAGE - Recombinant Human Huntingtin protein (ab112300)

ab112300 analysed on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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