Datasheet for ABIN119306

anti-Huntingtin antibody (AA 1844-2131)

1 Image

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Overview

Quantity:	0.1 mg
Target:	Huntingtin (HTT)
Binding Specificity:	AA 1844-2131
Reactivity:	Human, Mouse, Rabbit
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Huntingtin antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein corresponding to amino acids 1844 - 2131 of huntingtin
Clone:	HDB4E10
Isotype:	IgG1
Specificity:	This antibody reacts with an epitope corresponding to the HDB region (amino acids 1844-2131) of the Huntingtin protein. The combined use of Clone HDB4E10 (Cat.-No SM1661), HDC8A4 (Cat.-No SM1662) and HDA3E10 (Cat.-No SM1660) demonstrate that huntingtin is enriched in neuronal cells in the brain.
Purification:	Purified

Target Details

Target:	Huntingtin (HTT)
Alternative Name:	Huntingtin (HTT Products)
Background:	Huntington's disease (HD) is a neurodegenerative disorder caused by an expanding polyglutamine repeat in the huntingtin gene. HD is a mid-life onset autosomal dominant neurodegeneative disease that is characterized by psychiatric disorders, dementia, and involuntary movements (chorea), leading to death in 10-20 years. The HD gene product is widely expressed in human tissues, with the highest level of expression in the brain. The huntingtin gene product is expressed at similar levels in patients and controls, which suggests that the expansion of the polyglutamine repeat induces a toxic gain of function perhaps through interactions with other cellular proteins. Using yeast two-hybrid system, HAP1 (huntingtin associated protein 1) has been identified, that associates with huntingtin protein. The In vitro data suggest that the association between HAP1 and huntingtin is enhanced by increasing length of glutamine repeat.Synonyms: HD, HTT, Huntington Disease Protein, IT15
Gene ID:	3064
NCBI Accession:	NP_002102
UniProt:	P42858
Pathways:	PI3K-Akt Signaling, Hormone Transport, Transition Metal Ion Homeostasis, Tube Formation, Protein targeting to Nucleus, Dicarboxylic Acid Transport

Application Details

Application Notes:	Western Blot: Clone HDB4E10 detects a 350KD band on western blots but also detects smaller degradation products of huntingtin. Immunoprecipitation. Immunohistochemistry on frozen sections. Recommended positive control tissue: Brain. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

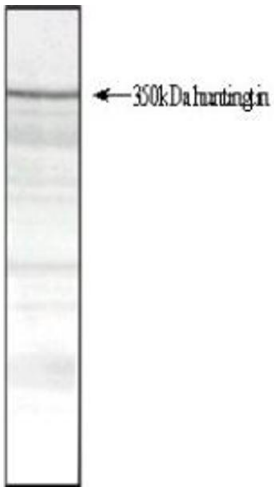
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, 0.09 % Sodium Azide
Handling Advice:	Avoid repeated freezing and thawing.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Western Blotting

Image 1. Total protein extract of normal human cerebral cortex separated as a strip on a 3-

