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Datasheet for ABIN1607890

anti-Huntingtin antibody (N-Term)

1 Image

Overview

Quantity:	100 µg
Target:	Huntingtin (HTT)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	Huntingtin affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the near N-terminus of human Huntingtin. Immunogen Type: Peptide
Cross-Reactivity (Details):	Cross reactivity with HTT from other sources has not been determined.
Purity:	Anti-Huntingtin was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HTT. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, and Rat based on 100 % sequence homology.
Endotoxin Level:	Low Endotoxin : No

Target Details

Target:	Huntingtin (HTT)
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Target Details

Alternative Name: [Huntington \(HTT Products\)](#)

Background: Huntington (also known as Huntington's disease protein, Htt and HD protein) is the protein product of a disease gene linked to Huntington's disease, a neuro-degenerative disorder characterized by loss of striatal neurons. This may be caused by an expanded, unstable trinucleotide repeat in the huntingtin gene, which translates as a polyglutamine repeat in the protein product (see partial protein sequence below). The huntingtin gene locus is large, spanning 180 kb and consisting of 67 exons. It is expressed as 2 alternatively polyadenylated forms displaying different relative abundance in various fetal and adult tissues. The genetic defect leading to Huntington's disease may not necessarily eliminate transcription, but may confer a new property on the mRNA or alter the function of the protein. One candidate is the huntingtin-associated protein-1, highly expressed in brain, which has increased affinity for huntingtin protein with expanded polyglutamine repeats. Normal huntingtin protein shows a cytoplasmic localization. This protein is 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. Anti-Huntingtin antibodies are ideal for researchers interested in Apoptosis, Autophagy, Cytoskeleton, Neurodegeneration, Neuroscience, and Neuronal Cell Markers research. Synonyms: HD protein, HTT, huntingtin, huntingtin (Huntington disease), IT15HD, Huntington disease protein

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: Anti-Huntington antibody is useful for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~350 kDa corresponding to the appropriate cell lysate or extract.

ELISA Dilution: 1:20.000 - 1:60.000

Immunohistochemistry Dilution: 1:100-1:500

IF Microscopy Dilution: 1:100-1:500

Western Blot Dilution: 0.1 µg/mL

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

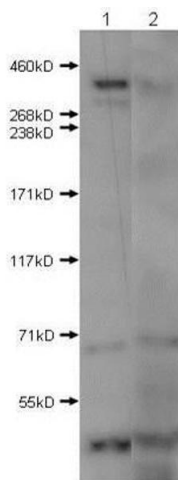
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: 50 % (v/v) Glycerol

Storage: 4 °C/-20 °C

Storage Comment: Store vial at -20 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: Expiration date is six (6) months from date of opening.

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-Huntington antibody. Lane 1: mouse brain extract. Lane 2: mouse brain extract with blocking peptide. Load: 10 µg per lane. Primary antibody: Huntingtin antibody at 0.1µg/mL for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 350 kDa for Huntington. Other band(s): Huntingtin splice variants and isoforms.