

Datasheet for ABIN3042565
anti-Huntingtin antibody (C-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	Huntingtin (HTT)
Binding Specificity:	AA 3106-3121, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Huntingtin antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Huntingtin/HTT Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Huntingtin, different from the related mouse and rat sequences by two amino acids.
Sequence:	ELDRRAFQSV LEVVAA
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Huntingtin/HTT Antibody (ABIN3042565). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Huntingtin (HTT)

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

Background: Synonyms: Huntingtin, Huntington disease protein, HD protein, HTT, HD, IT15, 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. .

Background: The huntingtin gene, also called HTT or HD (Huntington disease) gene, is the IT15 ("interesting transcript 15") gene which codes for a protein called the huntingtin protein. It is mapped to 4p16.3. The protein has no sequence homology with other proteins and is highly expressed in neurons and tests in humans and rodents. HTT upregulates the expression of Brain Derived Neurotrophic Factor (BDNF) at the transcription level, and this gene is required for normal development. The HTT protein is involved in vesicle trafficking as it interacts with HIP1, a clathrin-binding protein, to mediate endocytosis, the absorption of materials into a cell. HTT was also visualized as punctate staining likely to represent nerve endings. What's more, wildtype HTT may function in the nucleus in the assembly of nuclear matrix-bound protein complexes involved with transcriptional repression and RNA processing.

Sequence Similarities: Belongs to the huntingtin family.

Molecular Weight: 348 kDa

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, 0.1-0.5 µg/mL, Human, Mouse, Rat

1. Kegel, K. B., Meloni, A. R., Yi, Y., Kim, Y. J., Doyle, E., Cuiffo, B. G., Sapp, E., Wang, Y., Qin, Z.-H., Chen, J. D., Nevins, J. R., Aronin, N., DiFiglia, M. Huntingtin is present in the nucleus, interacts with the transcriptional corepressor C-terminal binding protein, and represses transcription. J. Biol. Chem. 277: 7466-7476, 2002. 2. The Huntington's Disease Collaborative Research Group (March 1993). "A novel gene containing a trinucleotide repeat that is expanded and unstable on

Application Details

Huntington's disease chromosomes". Cell 72 (6): 971-83. 3. Zuccato C, Ciammola A, Rigamonti D, Leavitt BR, Goffredo D, Conti L, MacDonald ME, Friedlander RM, Silani V, Hayden MR, Timmusk T, Sipione S, Cattaneo E (July 2001). "Loss of huntingtin-mediated BDNF gene transcription in Huntington's disease". Science 293(5529): 493-8.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Anti-Huntingtin antibody, All Western blottingAll lanes: Anti-HTT at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: U87 Whole Cell Lysate at 40ug Predicted bind size: 348KD Observed bind size: 348KD