

Datasheet for ABIN7601242
anti-Huntingtin antibody (AA 3079-3142)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Huntingtin (HTT)
Binding Specificity:	AA 3079-3142
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Huntingtin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-Huntingtin/HTT Antibody
Immunogen:	E.coli-derived human Huntingtin/HTT recombinant protein (Position: R3079-C3142). Human HTT shares 93.8% and 92.2% amino acid (aa) sequence identity with mouse and rat HTT, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-Huntingtin/HTT Antibody Picoband® (ABIN7601242). Tested in ELISA, IHC applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	Huntingtin (HTT)
Alternative Name:	HTT (HTT Products)
Background:	Synonyms: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody Tissue Specificity: Expressed in all tissues. 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.
Molecular Weight:	65 kDa
Gene ID:	3064
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:	Immunohistochemistry, 2-5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, -
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Application Details

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 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.

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.

Storage: 4 °C,-20 °C

Storage Comment: 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 freezing and thawing.