

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HTT RABBIT PAB

Cat.#: S222209

Product Name: Anti-HTT Rabbit Polyclonal Antibody

Synonyms: HD; IT15; LOMARS

UNIPROT ID: P42858 (Gene Accession - NP_002102)

Background: Huntingtin is a disease gene linked to Huntington's disease, a neurodegenerative disorder characterized by loss of striatal neurons. This is thought to be caused by an expanded, unstable trinucleotide repeat in the huntingtin gene, which translates as a polyglutamine repeat in the protein product. A fairly broad range of trinucleotide repeats (9-35) has been identified in normal controls, and repeat numbers in excess of 40 have been described as pathological. The huntingtin locus is large, spanning 180 kb and consisting of 67 exons. The huntingtin gene is widely expressed and is required for normal development. It is expressed as 2 alternatively polyadenylated forms displaying different relative abundance in various fetal and adult tissues. The larger transcript is approximately 13.7 kb and is expressed predominantly in adult and fetal brain whereas the smaller transcript of approximately 10.3 kb is more widely expressed. 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. This gene contains an upstream open reading frame in the 5' UTR that inhibits expression of the huntingtin gene product through translational repression.

Immunogen: Synthetic peptide of human HTT

Applications: ELISA, IHC

Recommended Dilutions: IHC: 40-200; ELISA: 5000-10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

Purification: Antigen affinity purification

Species Reactivity: Human, Rat

Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

Research Areas: Neuroscience

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



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Immunohistochemistry analysis of paraffin embedded Human tonsil tissue using 222209(HTT Antibody) at a dilution of 1/30(Cytoplasm or Nucleus).



In comparision with the IHC on the left, the same paraffin-embedded Human tonsil tissue is first treated with the synthetic peptide and then with 222209(Anti-HTT Antibody) at dilution 1/30.



The image on the left is immunohistochemistry of paraffinembedded Human esophagus cancer tissue using 222209(Anti-HTT Antibody) at a dilution peptide and then with D264225(Anti-HTT of 1/30.

In comparision with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with synthetic Antibody) at dilution 1/30.