



Anti-HTT (aa 81-190) polyclonal antibody (DPAB-DC1543)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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 in the number of trinucleotide repeats 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

HD (NP_002102, 81 a.a. ~ 190 a.a.) partial recombinant protein with GST tag. The sequence is
 AVAEEPLHRPKKELSATKKDRVNHCLTICENIVAQSVRNSPEFQKLLGIAMELFLLCSDD
 AESDVRMVADECLNKVIKALMDSNLPRLQLELYKEIKKNGAPRSLRAALW

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HTT huntingtin [Homo sapiens (human)]
Official Symbol	HTT
Synonyms	HTT; huntingtin; HD; IT15; huntington disease protein;
Entrez Gene ID	3064
Protein Refseq	NP_002102
UniProt ID	P42858
Chromosome Location	4p16.3
Pathway	Direct p53 effectors; Huntingtons disease;
Function	beta-tubulin binding; diazepam binding; dyactin binding; dynein intermediate chain binding