Human HTT Knockdown Cell Lysate

Cat. No. HTT-204HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated HTT Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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 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.

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Form	Cell-Tissue Lysis buffer
Molecular Mass	348 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg HTT KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Huntington's disease
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	HTT huntingtin [Homo sapiens (human)]
Official Symbol	HTT
Synonyms	HTT; huntingtin; HD, huntingtin (Huntington disease); IT15; huntington disease protein; HD;

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Gene ID	3064
mRNA Refseq	NM_002111
Protein Refseq	NP_002102
MIM	613004
UniProt ID	P42858

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