

Human DDB2 Knockdown Cell Lysate

Cat. No. DDB2-501HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated DDB2 Knockdown HT-1080 Cell Lysate
Species	Human
Source	HT-1080
Description	This gene encodes a protein that is necessary for the repair of ultraviolet light-damaged DNA. This protein is the smaller subunit of a heterodimeric protein complex that participates in nucleotide excision repair, and this complex mediates the ubiquitylation of histones H3 and H4, which facilitates the cellular response to DNA damage. This subunit appears to be required for DNA binding. Mutations in this gene cause xeroderma pigmentosum complementation group E, a recessive disease that is characterized by an increased sensitivity to UV light and a high predisposition for skin cancer development, in some cases accompanied by neurological abnormalities. Two transcript variants encoding different isoforms have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	48 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 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.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg DDB2 KD HT-1080 cell lysate
Protein Families	Druggable Genome
Protein Pathways	Nucleotide excision repair, p53 signaling pathway, Ubiquitin mediated proteolysis
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	DDB2 damage-specific DNA binding protein 2, 48kDa [Homo sapiens (human)]
Official Symbol	DDB2
Synonyms	DDB2; damage-specific DNA binding protein 2, 48kDa; damage specific DNA binding protein 2 (48kD); DNA damage-binding protein 2; DDB p48 subunit; DDBB; FLJ34321; UV damaged DNA binding protein 2; UV DDB2; xeroderma pigmentosum group E protein; UV-DDB 2; UV-damaged DNA-binding protein 2; damage-specific DNA-binding protein 2; UV-DDB2;
Gene ID	1643
mRNA Refseq	NM_000107

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Protein Refseq	NP_000098
MIM	600811
UniProt ID	Q92466

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