

Recombinant Full Length Human DDB1 Protein, GST-tagged

Cat. No. DDB1-6896HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length DDB1(1 a.a. - 1140 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1140 amino acids
Description	The protein encoded by this gene is the large subunit (p127) of the heterodimeric DNA damage-binding (DDB) complex while another protein (p48) forms the small subunit. This protein complex functions in nucleotide-excision repair and binds to DNA following UV damage. Defective activity of this complex causes the repair defect in patients with xeroderma pigmentosum complementation group E (XPE) - an autosomal recessive disorder characterized by photosensitivity and early onset of carcinomas. However, it remains for mutation analysis to demonstrate whether the defect in XPE patients is in this gene or the gene encoding the small subunit. In addition, Best vitelliform muscular dystrophy is mapped to the same region as this gene on 11q, but no sequence alternations of this gene are demonstrated in Best disease patients. The protein encoded by this gene also functions as an adaptor molecule for the cullin 4 (CUL4) ubiquitin E3 ligase complex by facilitating the binding of substrates to this complex and the ubiquitination of proteins.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Molecular Mass	153.4 kDa
AA Sequence	MSYNYVVTAQKPTAVNGCVTGHFTSAEDLNLLIAKNTRLEIYVVTAEGLRPVKEVGM YGKIAMMELFRPKGESKD LLFILTAKYNACILEYKQSGESIDIITRAHGNVQDRIGRPS ETGIIIGIDPECRMIGRLRLYDGLFKVIPLDRDNK ELKAFNIRLEELHVIDVKFLYGCQAP TICFVYQDPQGRHVKTIEVSLREKEFNKGPWKQENVEAEASMVIAVPEP FGGAIIG QESITYHNGDKYLAIAPPIIKQSTIVCHNRVDPNGSRVLLGDMEGRLFMLLLEKEEQM DGTVTCLKDL RVELLGETSIAECLTYLDNGVVFVGSRLGDSQLVVLNVDSNEQGSYV VAMETFTNLGPIVDMCVVDLERQGGGQL VTCSGAFKEGSLRIIRNGIGIHEHASIDLP GIKGLWPLRSDPNRETDDTLVLSFVGQTRVLMNLNGEEVEETELMG FVDDQQTFFC GNVAHQQLIQITSASVRLVSQEPKALVSEWKEPQAKNISVASCNSSQVVAVGRALY YLQIHPQE LRQISHTEMEHEVACLDITPLGDSNGLSPLCAIGLWTDISARILKLPSFEL LHKEMLGGEIIPRSILMTTFESSH YLLCALGDGALFYFGLNIETGLLSDRKKVTLGTQ PTVLRTFRSLSTTNVFACSDRPTVIYSSNHKLVSFNVNLKE VNYMCPLNSDGYPDSL ALANNSTLTIGTIDEIQKLHIRTVPPLYESPRKICYQEVSQCFGLSSRIEVQDTSGGTT ALRPSASTQALSSSVSSSKLFSSSTAPHETSFGEVEVHNLLIIDQHTFEVLHAHQFL QNEYALSLVSCKLGKDP NTYFIVGTAMVYPEEAEPKQGRIVVFQYSDGKLQTVAEK EVKGAVYSMVEFNGKLLASINSTVRLYEWTTTEKELR TECNHYNNIMALYLKTKGDFI LVGDLMRSVLLLAYKPMEGNFEEIARDFNPWNMSAVEILDDDNFLGAENAFNLF VC QKDSAATTDEERQHLQEVLGFLHGEFVNVFCHGSLVMQNLGETSTPTQGSVLFQTV NGMIGLVTSLSSESWYNL LLDMQNRLNKVIKSVGKIEHSFWRSFHTERKTEPATGFID GDLESFLDISRPKMQEVDVANLQYDDGSGMKREAT ADDLIKVVHEELTRIH
Applications	Enzyme-linked Immunoabsorbent; Assay Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	DDB1 damage specific DNA binding protein 1 [Homo sapiens (human)]
Official Symbol	DDB1
Synonyms	DDB1; damage-specific DNA binding protein 1, 127kDa; damage specific DNA binding protein 1 (127kD); DNA damage-binding protein 1; XPE; XAP-1; UV-DDB 1; DDB p127 subunit; XPE-binding factor; HBV X-associated protein 1; DNA damage-binding protein a; UV-damaged DNA-binding factor; UV-damaged DNA-binding protein 1; damage-specific DNA-binding protein 1; xeroderma pigmentosum group E-complementing protein; DDBA; XAP1; XPCE; XPE-BF; UV-DDB1;
Gene ID	1642
mRNA Refseq	NM_001923
Protein Refseq	NP_001914
MIM	600045
UniProt ID	Q16531

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