Recombinant Full Length Human CRBN-DDB1 Protein, N-His and Avi tagged

Cat. No. CRBN-DBB1-23HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRBN-DDB1 Protein, Full Length with N-His and N-Avi tag was expressed in Sf9 insect cells.
Species	Human
Source	Insect cells
ProteinLength	Full Length
Description	This gene encodes a protein related to the Lon protease protein family. In rodents and other mammals this gene product is found in the cytoplasm localized with a calcium channel membrane protein, and is thought to play a role in brain development. Mutations in this gene are associated with autosomal recessive nonsyndromic cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene. 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

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	addition, Best vitelliform mascular 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.
Tag	N-His and N-Avi
Form	Solution
Molecular Mass	55.3 kDa and 126.9 kDa
Endotoxin	<1 EU/μg, determined by LAL method.
Purity	Greater than 90 % as determined by reducing SDS-PAGE.
Storage	Stored at -80 centigrade for 1 year. It is stable at -20 centigrade for 3 months after opening. It is recommended to freeze aliquots at -80 centigrade for extended storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol, 1 mM DTT.
Shipping	Shipping with dry ice.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
GeneID 2	1642

GENE INFORMATION

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Gene Name	CRBN cereblon [Homo sapiens]
Official Symbol	CRBN
Synonyms	CRBN; cereblon; mental retardation, non syndromic, autosomal recessive, 2A , MRT2A; protein cereblon; protein x 0001; MRT2; MRT2A; MGC27358; DKFZp781K0715
Gene ID	51185
mRNA Refseq	NM_001173482
Protein Refseq	NP_001166953
MIM	609262
UniProt ID	Q96SW2
Gene Name 2	DDB1 damage specific DNA binding protein 1 [Homo sapiens (human)]
Official Symbol 2	DDB1
Synonyms 2	DDB1; damage specific DNA binding protein 1; XPE; DDBA; XAP1; XPCE; XPE-BF; UV-DDB1; WHIKERS; DNA damage-binding protein 1; DDB p127 subunit; DNA damage-binding protein a; HBV X-associated protein 1; UV-DDB 1; UV-damaged DNA-binding factor; UV-damaged DNA-binding protein 1; XAP-1; XPE-binding factor; damage-specific DNA binding protein 1, 127kDa; xeroderma pigmentosum group E-complementing protein
mRNA Refseq 2	NM_001923

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Protein Refseq 2	NP_001914
MIM 2	600045
UniProt ID 2	Q16531

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