

Recombinant Full Length Human cereblon and damage specific DNA binding protein 1 Complex Protein, Flag tagged

Cat. No. CRBN-DDB1-20HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Complex of recombinant human CRBN (Cereblon), encompassing amino acids 2-442(end), and recombinant human DDB1 (damage specific DNA binding protein 1), encompassing amino acids 2-1140(end). The CRBN and DDB1 constructs contain an N-terminal FLAG-tag. These recombinant proteins were co-expressed, and affinity purified.
Species	Human
Source	HEK293
ProteinLength	CRBN: 2-442aa DDB1: 2-1140aa
Description	The Cereblon (CRBN) protein via its interaction with the DNA damage-binding protein-1 (DDB1), Cullin 4 (Cul4A or Cul4B), and regulator of Cullins 1 (RoC1) forms a functional E3 Ub ligase complex. In this complex, Cereblon functions as a substrate receptor that mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Like most E3 ligases, Cereblon complex ubiquitinates itself and its auto-ubiquitination promotes its ligase activity. Cereblon complex is involved in many biological processes including cell proliferation and apoptosis, and it has been extensively used in targeted protein degradation, where CRBN binds to the protein of interest and leads to its degradation. This approach has shown promising results in the treatment of cancer.

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Tag	N-Flag
Form	Aqueous buffer solution.
Molecular Mass	CRBN: 51 kDa DDB1: 128 kDa
Purity	≥ 90%
Applications	Useful for SDS-PAGE.
Notes	Avoid freeze/thaw cycles
Storage	At least 6 months at -80 centigrade.
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
Shipping	At -80 centigrade.
GenelD 2	1642

GENE INFORMATION

Gene Name	CRBN cereblon [Homo sapiens (human)]
Official Symbol	CRBN
Synonyms	CRBN; cereblon; mental retardation, non syndromic, autosomal recessive, 2A , MRT2A; protein cereblon; protein x 0001; MRT2; MRT2A; MGC27358; DKFZp781K0715;

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Gene ID	51185
mRNA Refseq	NM_016302
Protein Refseq	NP_057386
MIM	609262
UniProt ID	Q96SW2
Gene Name 2	DDB1 damage-specific DNA binding protein 1, 127kDa [Homo sapiens (human)]
Official Symbol 2	DDB1
Synonyms 2	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;
mRNA Refseq 2	NM_001923
Protein Refseq 2	NP_001914
MIM 2	600045
UniProt ID 2	Q16531

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