

# Recombinant Full Length Human CRBN/DDB1 Protein, FLAG tagged

**Cat. No.** CRBN-DBB1-25HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | CRBN: 2-442aa<br>DDB1: 2-1140aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tag</b>            | N-Flag                                                                                                                                                                                             |
| <b>Form</b>           | Aqueous buffer solution                                                                                                                                                                            |
| <b>Molecular Mass</b> | CRBN: 51 kDa; DDB1: 128 kDa                                                                                                                                                                        |
| <b>Purity</b>         | ≥ 90%                                                                                                                                                                                              |
| <b>Usage</b>          | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| <b>Applications</b>   | Useful for SDS-PAGE.                                                                                                                                                                               |
| <b>Notes</b>          | Avoid freeze/thaw cycles                                                                                                                                                                           |
| <b>Storage</b>        | At least 6 months at -80 centigrade.                                                                                                                                                               |
| <b>Shipping</b>       | At -80 centigrade                                                                                                                                                                                  |
| <b>GeneID 2</b>       | <a href="#">1642</a>                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">CRBN cereblon [ Homo sapiens (human) ]</a>                                                                                                     |
| <b>Official Symbol</b> | <a href="#">CRBN</a>                                                                                                                                       |
| <b>Synonyms</b>        | CRBN; cereblon; mental retardation, non syndromic, autosomal recessive, 2A , MRT2A; protein cereblon; protein x 0001; MRT2; MRT2A; MGC27358; DKFZp781K0715 |

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