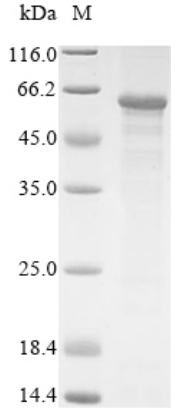


Recombinant Human Protein cereblon(CRBN)

Catalog Number: RPC20605

Product Name	Recombinant Human Protein cereblon(CRBN)
Catalog Number	RPC20605
Expression host	<i>in vitro E.coli</i> expression system
Product Info	N-terminal 6xHis-tagged
Storage Buffer	10 mM Tris-HCl, 1mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Substrate recognition component of a DCX (DDB1-CUL4-X-box) E3 protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as MEIS2. Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8. May play a role in memory and learning by regulating the assembly and neuronal surface expression of large-conductance calcium-activated potassium channels in brain regions involved in memory and learning via its interaction with KCNT1. Binding of pomalidomide and other thalidomide-related drugs changes the substrate specificity of the human protein, leading to decreased degradation of MEIS2 and other target proteins and increased degradation of MYC, IRF4, IKZF1 and IKZF3.
AA sequence	MAGEGDQQDAAHNMGNHLPLLPAESEEDEMEVEDQDSKEAKKPNIINFDTSL PTSHTYLGADMEEFHGRTHLHDDSDSCQVIPVLPQVMILIPGQTLPLQLFHPQEVS MVRNLIQKDRTFVLAYSNVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGR QRFKVLRLRTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFPSKPVSRED QCSYKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENL KDDSLPSNPIDFSYRVAACLPIDDVLRIQLLKGSAIQRRLCELDIMNKCTSLCCK QCQETEITTKNEIFSLSLCGPMAAYVNPHGYVHETLTVYKACNLNLIGRPSTEHS WFPGYAWTVAQCKICASHIGWKFTATKKDMSPQKFWGLTRSALLPTIPDTEDEI SPDKVILCL
References	"Complete sequencing and characterization of 21,243 full-length human cDNAs." Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S. Sugano S. Nat. Genet. 36:40-45(2004)

Certificate of Analysis

Product Name	Recombinant Human Protein cereblon(CRBN)	
Catalog Number	RPC20605	
Expression host	<i>in vitro</i> E.coli expression system	
Product Info	N-terminal 6xHis-tagged	
Storage Buffer	10 mM Tris-HCl, 1mM EDTA, pH 8.0, 50% glycerol	
Batch Number	03664	
Nature	Human CRBN-(AA 1-442)- Q96SW2 -Full Length	
Purification	Affinity purified using IMAC	
Recommended Storage	Short term	2 to 8 °C, one week from the date of receipt
	Long term	-20 to -80 °C, six months from the date of receipt
Form	Liquid	
Date of detection	2018.02.08	
Test Items	Specifications	Results
Appearance	Clear Solution	pass
Concentration	0.1-5 mg/ml, by the Bradford Method.	0.3 mg/ml
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.	
Molecular Weight	Predicted band size : 54.5 kDa	

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	Not done
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass