

Active Recombinant Human CUL2/RBX1 protein

Cat. No. CUL2-133H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CUL2/RBX1 was coexpressed in Insect cells.
Species	Human
Source	Insect Cells
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	E3 Ligase Assay: The activity of Cul2/Rbx1 was validated indirectly through its ability to act as a substrate for Neddylation in the presence of the NEDD8 E3 ligase His-DCNL2 and thioester-loaded His-UBE2M-NEDD8. Incubation of Cul2/Rbx1 and thioester loaded His-UBE2M-NEDD8 in the presence or absence of His-DCNL2 at 4°C was compared at two time points T0 and T2 minutes. Neddylation of the Cul2 subunit in the presence of His-DCNL2 was demonstrated.
Molecular Mass	Cul2=~87.1kDa; Rbx1=~12.3kDa
Purity	>75% by InstantBlue™ SDS-PAGE
Stability	12 months at -70 centigrade; aliquot as required
Storage	Store product at -70 centigrade
Concentration	0.5mg/ml

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GENE INFORMATION

Gene Name	CUL2 cullin 2 [Homo sapiens]
Official Symbol	CUL2
Synonyms	CUL2; cullin 2; cullin-2; CUL-2; MGC131970;
Gene ID	8453
mRNA Refseq	NM_001198777
Protein Refseq	NP_001185706
MIM	603135
UniProt ID	Q13617
Chromosome Location	10p11.2
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; ECV complex, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem;
Function	protein binding; ubiquitin protein ligase binding;

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