Active Recombinant Human CUL3/RBX1

Cat. No. CUL3-148H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CUL3 (amino acid residues 1-768), RBX1 (amino acid residues 1-108) was expressed in Insect (Sf21) cells.
Species	Human
Source	Insect Cells
ProteinLength	1-768;1-108 a.a.
Description	Cullin-RING-Ligases (CRLs) are one largest class of ubiquitin E3 ligases and the enzymes of the NEDDylation pathway play a pivotal role in the activation of these, akin to ubiquitylation, the E1 activating enzyme (APP-BP1/UBA3 heterodimer) and the E2 conjugating enzymes (UBE2M or UBE2F) are involved in mammalian NEDDylation of the Cullin Ring Ligases (CRLs) (Meyer-Schaller et al., 2009; Huang et al., 2011; Morimoto et al., 2003).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	E3 Ligase Assay: The activity of Cul3/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 Cul3/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 Cul3 subunit in the presence of His-DCNL2 was demonstrated.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Cul3= 89kDa; Rbx1=12kDa
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	CUL3 cullin 3 [Homo sapiens]
Official Symbol	CUL3
Synonyms	CUL3; cullin 3; cullin-3; CUL-3; PHA2E; FLJ25665;
Gene ID	8452
mRNA Refseq	NM_001257197
Protein Refseq	NP_001244126
MIM	603136
UniProt ID	Q13618
Chromosome Location	2q36.2
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Aurora B signaling, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Class I MHC mediated antigen processing &

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Function	cyclin binding; protein binding; ubiquitin protein ligase binding; contributes_to ubiquitin-protein ligase activity;

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