

Recombinant Mouse Rbck1 Protein, Myc/DDK-tagged

Cat. No. Rbck1-5405M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RanBP-type and C3HC4-type zinc finger containing 1 (Rbck1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers it to substrates. Functions as an E3 ligase for oxidized IREB2 and both heme and oxygen are necessary for IREB2 ubiquitination. Promotes ubiquitination of TAB2 and IRF3 and their degradation by the proteasome. Component of the LUBAC complex which conjugates linear ('Met-1'-linked) polyubiquitin chains to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types.

 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	56.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rbck1 RanBP-type and C3HC4-type zinc finger containing 1 [Mus musculus (house mouse)]
Official Symbol	Rbck1
Synonyms	RBCK1; RanBP-type and C3HC4-type zinc finger containing 1; ranBP-type and C3HC4-type zinc finger-containing protein 1; ubcM4-interacting protein 28; heme-oxidized IRP2 ubiquitin ligase 1 homolog; novel zinc finger, C3HC4 type (RING finger) protein; ubiquitin conjugating enzyme 7 interacting protein 3; ubiquitin-conjugating enzyme 7-interacting protein 3; UIP28; HOIL-1; HOIL-1L; AL033326; Ubce7ip3; RP23-452D3.5
Gene ID	24105
mRNA Refseq	NM_001083921

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Protein Refseq	NP_001077390
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UniProt ID	Q9WUB0
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