

Recombinant Human RBCK1 Protein (D2-H510), His tagged

Cat. No. RBCK1-0451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-(GG)-RBCK1(D2-H510 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	D2-H510
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. The LUBAC complex is also involved in innate immunity by conjugating linear polyubiquitin chains at the surface of bacteria invading

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the cytosol to form the ubiquitin coat surrounding bacteria. LUBAC is not able to initiate formation of the bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing ubiquitin. The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	RBCK1 RanBP-type and C3HC4-type zinc finger containing 1 [Homo sapiens (human)]
Official Symbol	RBCK1
Synonyms	RBCK1; RanBP-type and C3HC4-type zinc finger containing 1; C20orf18,

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chromosome 20 open reading frame 18; ranBP-type and C3HC4-type zinc finger-containing protein 1; RBCK2; RNF54; UBCE7IP3; XAP4; ZRANB4; RING finger protein 54; HBV associated factor 4; HBV-associated factor 4; RBCC protein interacting with PKC1; heme-oxidized IRP2 ubiquitin ligase 1; hepatitis B virus X-associated protein 4; ubiquitin conjugating enzyme 7 interacting protein 3; ubiquitin-conjugating enzyme 7-interacting protein 3; XAP3; HOIL1; HOIL-1; C20orf18;

Gene ID [10616](#)

mRNA Refseq [NM_006462](#)

Protein Refseq [NP_006453](#)

MIM [610924](#)

UniProt ID [Q9BYM8](#)

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