

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP2107b**Specification**

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9BYM8](#)**RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 10616**Other Names**

RanBP-type and C3HC4-type zinc finger-containing protein 1, 632-, HBV-associated factor 4, Heme-oxidized IRP2 ubiquitin ligase 1, HOIL-1, Hepatitis B virus X-associated protein 4, RING finger protein 54, Ubiquitin-conjugating enzyme 7-interacting protein 3, RBCK1, C20orf18, RNF54, UBCE7IP3, XAP3, XAP4

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2107b](/product/products/AP2107b) was selected from the C-term region of human UBCE7IP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Protein Information**Name** RBCK1**Function**

E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers it to substrates (PubMed: [12629548](http://www.uniprot.org/citations/12629548), PubMed: [17449468](http://www.uniprot.org/citations/17449468), PubMed: [18711448](http://www.uniprot.org/citations/18711448)). Functions as an E3 ligase for oxidized IREB2 and both heme and oxygen are necessary for IREB2 ubiquitination (PubMed: [12629548](http://www.uniprot.org/citations/12629548)). Promotes ubiquitination of TAB2 and IRF3 and their degradation by the proteasome (PubMed: [17449468](http://www.uniprot.org/citations/17449468), PubMed: [17449468](http://www.uniprot.org/citations/17449468)).

href="http://www.uniprot.org/citations/18711448" target="_blank">18711448). 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 (PubMed:17006537, PubMed:19136968, PubMed:21455173, PubMed:21455180, PubMed:21455181). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways (PubMed:17006537, PubMed:19136968, PubMed:21455173, PubMed:21455180, PubMed:21455181). Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation (PubMed:17006537, PubMed:21455173, PubMed:21455180, PubMed:21455181). 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 (PubMed:17006537, PubMed:19136968, PubMed:21455173, PubMed:21455180, PubMed:21455181). The LUBAC complex is also involved in innate immunity by conjugating linear polyubiquitin chains at the surface of bacteria invading the cytosol to form the ubiquitin coat surrounding bacteria (PubMed:28481331). LUBAC is not able to initiate formation of the bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing ubiquitin (PubMed:28481331). The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation (PubMed:28481331). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (PubMed:23708998). Binds polyubiquitin of different linkage types (PubMed:20005846, PubMed:21455181).

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Images

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - Background

This protein acts as an E3 ubiquitin-protein ligase, or as part of the E3 complex, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers it to substrates.

RBCK1 (UBCE7IP3) Antibody (C-term) Blocking peptide - References

Yamanaka, K., et al., Nat. Cell Biol. 5(4):336-340 (2003). Martinez-Noel, G., et al., FEBS Lett. 454(3):257-261 (1999).