

RNF31 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19285b**Specification**

RNF31 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q96EP0](#)**RNF31 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 55072

Other Names

E3 ubiquitin-protein ligase RNF31, 632-, HOIL-1-interacting protein, HOIP, RING finger protein 31, Zinc in-between-RING-finger ubiquitin-associated domain protein, RNF31, ZIBRA

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.

RNF31 Antibody (C-term) Blocking Peptide - Protein InformationName RNF31 ([HGNC:16031](#))**Function**

E3 ubiquitin-protein ligase 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:20005846, PubMed:21455173, PubMed:21455180, PubMed:21455181, PubMed:22863777, PubMed:28189684, PubMed:28481331). 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:20005846, PubMed:21455173, PubMed:21455180, PubMed:21455181, PubMed:22863777, PubMed:28189684, PubMed:28481331).

[21455180](http://www.uniprot.org/citations/21455180), PubMed: [21455181](http://www.uniprot.org/citations/21455181), PubMed: [22863777](http://www.uniprot.org/citations/22863777), PubMed: [28189684](http://www.uniprot.org/citations/28189684)). Linear ubiquitination mediated by the LUBAC complex interferes with TNF- induced cell death and thereby prevents inflammation (PubMed: [21455173](http://www.uniprot.org/citations/21455173), PubMed: [28189684](http://www.uniprot.org/citations/28189684)). 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: [20005846](http://www.uniprot.org/citations/20005846), PubMed: [27458237](http://www.uniprot.org/citations/27458237)). 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](http://www.uniprot.org/citations/28481331), PubMed: [34012115](http://www.uniprot.org/citations/34012115)). 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](http://www.uniprot.org/citations/28481331), PubMed: [34012115](http://www.uniprot.org/citations/34012115)). Recruited to the surface of bacteria by RNF213, which initiates the bacterial ubiquitin coat (PubMed: [34012115](http://www.uniprot.org/citations/34012115)). The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation (PubMed: [28481331](http://www.uniprot.org/citations/28481331), PubMed: [34012115](http://www.uniprot.org/citations/34012115)). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (PubMed: [23708998](http://www.uniprot.org/citations/23708998)). RNF31 is required for linear ubiquitination of BCL10, thereby promoting TCR-induced NF-kappa- B activation (PubMed: [27777308](http://www.uniprot.org/citations/27777308)). Binds polyubiquitin of different linkage types (PubMed: [23708998](http://www.uniprot.org/citations/23708998)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q924T7}.

Tissue Location

Expressed in both normal and transformed breast epithelial cell lines.

RNF31 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RNF31 Antibody (C-term) Blocking Peptide - Images

RNF31 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene contains a RING finger, a motif present in a variety of functionally distinct proteins and known to be involved in protein-DNA and protein-protein interactions.

RNF31 Antibody (C-term) Blocking Peptide - References

Silva, L.K., et al. Eur. J. Hum. Genet. (2010) In press :Ehrlund, A., et al. Mol. Cell. Biol. 29(8):2230-2242(2009)Tokunaga, F., et al. Nat. Cell Biol. 11(2):123-132(2009)Kirisako, T., et al. EMBO J. 25(20):4877-4887(2006)Lim, J., et al. Cell 125(4):801-814(2006)