RNF31 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RNF31, Blocking Peptide
Full Product Name	RNF31 Antibody (C-term) Blocking Peptide
Product Gene Name	RNF31 blocking peptide
Product Synonym Gene Name	ZIBRA
Product Synonym 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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RNF31 peptide (MBS9224180) is used for blocking the activity of RNF31 antibody (MBS9208608)
Molecular Weight	102,496 Da
OMIM	612487
Cellular Location	Cytoplasm.
Tissue Location	Expressed in both normal and transformed breast epithelial cell lines.
Related Product Information for RNF31 blocking peptide	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. 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 proposed to be 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 FAM105B/otulin, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types.
Other Notes	Small volumes of RNF31 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RNF31 purchase	MBS9224180 is a blocking peptide targeting RNF31. Also known as RNF31 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF31. It may not necessarily be applicable to this product.

NCBI GI #	45477216
NCBI GeneID	55072
NCBI Accession #	Q96EP0.1
UniProt Primary Accession #	Q96EP0
UniProt Secondary Accession #	Q86VI2; Q8TEI0; Q96GB4; Q96NF1; Q9H5F1; Q9NWD2; A0A962
UniProt Related Accession #	Q96EP0
NCBI Official Full Name	E3 ubiquitin-protein ligase RNF31

NCBI Official Synonym Full Names	ring finger protein 31
NCBI Official Symbol	RNF31
NCBI Official Synonym Symbols	HOIP; ZIBRA
UniProt Protein Name	E3 ubiquitin-protein ligase RNF31
UniProt Synonym Protein Names	HOIL-1-interacting protein; HOIP; RING finger protein 31; Zinc in-between-RING-finger ubiquitin-associated domain protein
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RNF31
UniProt Synonym Gene Names	ZIBRA; HOIP
UniProt Entry Name	RNF31_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase RNF31
NCBI Summary for RNF31	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. The encoded protein is the E3 ubiquitin-protein ligase component of the linear ubiquitin chain assembly complex. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]
UniProt Comments for RNF31	RNF31: E3 ubiquitin-protein ligase component of the LUBAC complex which conjugates linear ('M-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 proposed to be 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. Binds polyubiquitin of different linkage types. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; Ligase; Ubiquitin conjugating system; EC 6.3.2.-; EC 6.3.2.19 Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: cytosol; internal side of plasma membrane Molecular Function: protein binding; ubiquitin binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity Biological Process: activation of NF-kappaB transcription factor; I-kappaB kinase/NF-kappaB cascade; positive regulation of I-kappaB kinase/NF-kappaB cascade; protein polyubiquitination; T cell receptor signaling pathway
Research Articles on RNF31	**1.** These findings collectively indicated an oncogene role of RNF31 in PCa progression which can be regulated by miR-503, suggesting that RNF31 could serve as a potential prognostic biomarker and therapeutic target for PCa.
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