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Goat Anti-RNF31 / ZIBRA (C terminus) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1936a

Specification

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - Product Information

Application	**WB**
Primary Accession	Q96EP0
Other Accession	NP_060469.4, 55072
Reactivity	**Human**
Predicted	**Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**119652**

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - Additional Information

Gene ID 55072

Other Names
E3 ubiquitin-protein ligase RNF31, 6.3.2.-, HOIL-1-interacting protein, HOIP, RING finger protein 31, Zinc in-between-RING-finger ubiquitin-associated domain protein, RNF31, ZIBRA

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-RNF31 / ZIBRA (C terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - Protein Information

Name 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:<a href="http://www.uniprot.org/citations/20005846"

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

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q924T7}.

Tissue Location
Expressed in both normal and transformed breast epithelial cell lines.

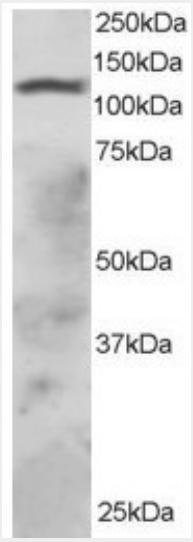
Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - Protocols

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

- Western Blot

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - Images



AF1936a staining (2 µg/ml) of HepG2 lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - 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.

Goat Anti-RNF31 / ZIBRA (C terminus) Antibody - References

Dengue hemorrhagic fever is associated with polymorphisms in JAK1. Silva LK, et al. Eur J Hum Genet, 2010 Jun 30. PMID 20588308.
E3 ubiquitin ligase RNF31 cooperates with DAX-1 in transcriptional repression of steroidogenesis. Ehrlund A, et al. Mol Cell Biol, 2009 Apr. PMID 19237537.
Involvement of linear polyubiquitylation of NEMO in NF-kappaB activation. Tokunaga F, et al. Nat Cell Biol, 2009 Feb. PMID 19136968.
A ubiquitin ligase complex assembles linear polyubiquitin chains. Kirisako T, et al. EMBO J, 2006 Oct 18. PMID 17006537.
A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Lim J, et al. Cell, 2006 May 19. PMID 16713569.