10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RNF31 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19285b

Specification

RNF31 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q96EP0
Other Accession	NP_060469.4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**119652**
Antigen Region	**955-983**

RNF31 Antibody (C-term) - 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

Target/Specificity
This RNF31 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 955-983 amino acids from the C-terminal region of human RNF31.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
RNF31 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF31 Antibody (C-term) - 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: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.

RNF31 Antibody (C-term) - 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

RNF31 Antibody (C-term) - Images

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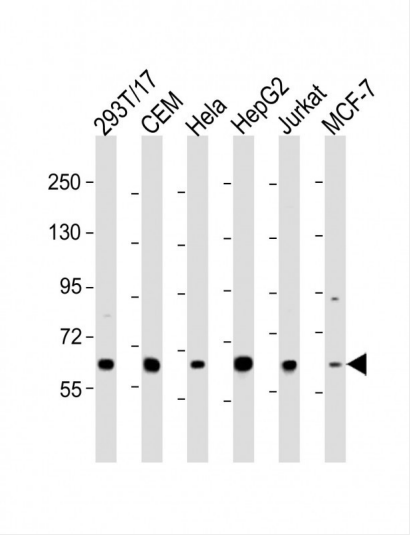
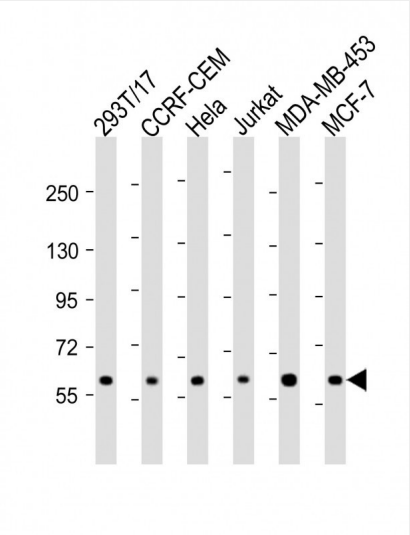


All lanes : Anti-RNF31 Antibody (C-term) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: CEM whole cell lysate Lane 3: Hela whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: Jurkat whole cell lysate Lane 6: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 120 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-RNF31 Antibody (C-term) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: CCRF-CEM whole cell lysate Lane 3: Hela whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: MDA-MB-453 whole cell lysate Lane 6: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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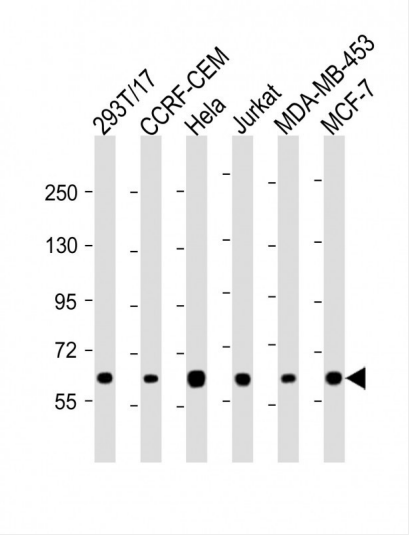

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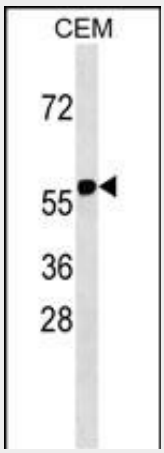

RNF31 Antibody (C-term)(Cat. #AP19285b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the RNF31 antibody detected the RNF31 protein (arrow).

RNF31 Antibody (C-term) - 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) - 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)