

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1934a

Specification

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - Product Information

Application	IHC
Primary Accession	Q63HN8
Other Accession	NP_065965 , 57674
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	591407

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - Additional Information

Gene ID 57674

Other Names

E3 ubiquitin-protein ligase RNF213, 6.3.2.-, ALK lymphoma oligomerization partner on chromosome 17, Mysterin, RING finger protein 213, RNF213, ALO17, C17orf27, KIAA1554, KIAA1618, MYSTR

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-RNF213 / C17orf27 (C Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - Protein Information

Name RNF213 ([HGNC:14539](#))

Function

Atypical E3 ubiquitin ligase that can catalyze ubiquitination of both proteins and lipids, and which is involved in various processes, such as lipid metabolism, angiogenesis and cell-autonomous immunity (PubMed:21799892, PubMed:26126547, PubMed:26278786)

target="_blank">26278786, PubMed:26766444, PubMed:30705059, PubMed:32139119, PubMed:34012115). Acts as a key immune sensor by catalyzing ubiquitination of the lipid A moiety of bacterial lipopolysaccharide (LPS) via its RZ-type zinc finger: restricts the proliferation of cytosolic bacteria, such as Salmonella, by generating the bacterial ubiquitin coat through the ubiquitination of LPS (PubMed:34012115). Also acts indirectly by mediating the recruitment of the LUBAC complex, which conjugates linear polyubiquitin chains (PubMed:34012115). Ubiquitination of LPS triggers cell-autonomous immunity, such as antibacterial autophagy, leading to degradation of the microbial invader (PubMed:34012115). Involved in lipid metabolism by regulating fat storage and lipid droplet formation; act by inhibiting the lipolytic process (PubMed:30705059). Also regulates lipotoxicity by inhibiting desaturation of fatty acids (PubMed:30846318). Also acts as an E3 ubiquitin-protein ligase via its RING-type zinc finger: mediates 'Lys-63'-linked ubiquitination of target proteins (PubMed:32139119, PubMed:33842849). Involved in the non-canonical Wnt signaling pathway in vascular development: acts by mediating ubiquitination and degradation of FLNA and NFATC2 downstream of RSPO3, leading to inhibit the non-canonical Wnt signaling pathway and promoting vessel regression (PubMed:26766444). Also has ATPase activity; ATPase activity is required for ubiquitination of LPS (PubMed:34012115).

Cellular Location

Cytoplasm, cytosol. Lipid droplet

Tissue Location

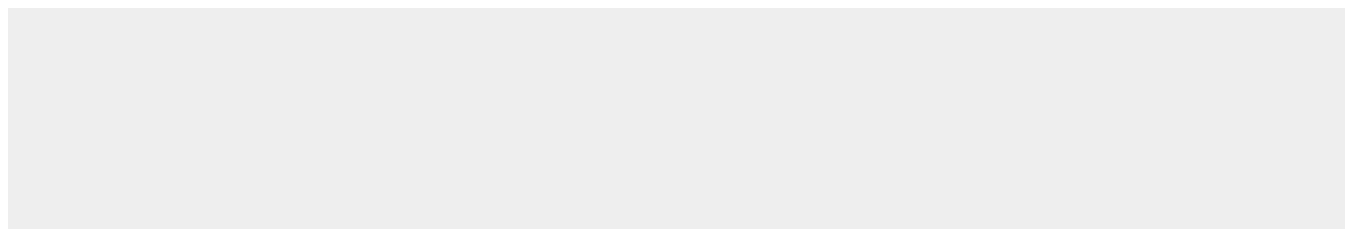
Widely expressed (at protein level). [Isoform 2]: Minor isoform with restricted expression.

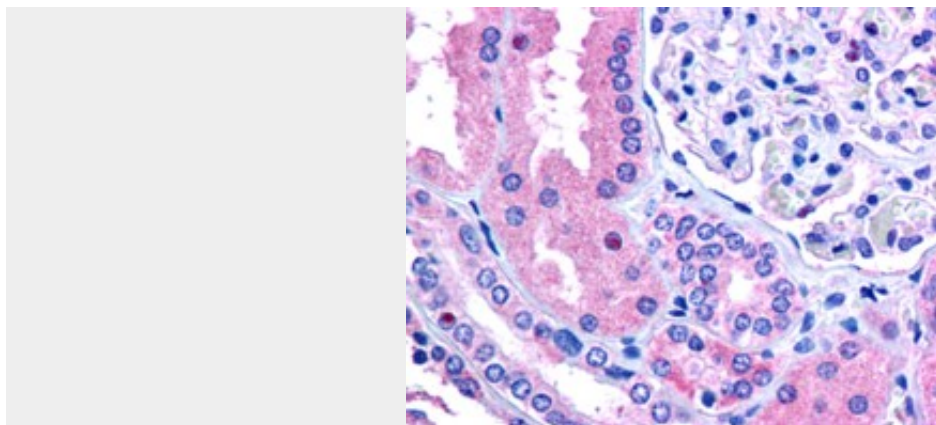
Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - Images





AF1934a (2.5 µg/ml) staining of paraffin embedded human kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining

Goat Anti-RNF213 / C17orf27 (C Terminus) Antibody - References

Lysine acetylation targets protein complexes and co-regulates major cellular functions. Choudhary C, et al. Science, 2009 Aug 14. PMID 19608861.

A quantitative atlas of mitotic phosphorylation. Dephoure N, et al. Proc Natl Acad Sci U S A, 2008 Aug 5. PMID 18669648.

Large-scale phosphoproteome analysis of human liver tissue by enrichment and fractionation of phosphopeptides with strong anion exchange chromatography. Han G, et al. Proteomics, 2008 Apr. PMID 18318008.

Automated phosphoproteome analysis for cultured cancer cells by two-dimensional nanoLC-MS using a calcined titania/C18 biphasic column. Imami K, et al. Anal Sci, 2008 Jan. PMID 18187866.

The full-ORF clone resource of the German cDNA Consortium. Bechtel S, et al. BMC Genomics, 2007 Oct 31. PMID 17974005.