

RNF213 / C17orf27 (internal) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2556a

Specification

RNF213 / C17orf27 (internal) Antibody (internal region) - Product Information

Application	IHC
Primary Accession	Q63HN8
Other Accession	NP_065965.3 , 57674
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	591407

RNF213 / C17orf27 (internal) Antibody (internal region) - 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/ml in Tris saline, 0.02% sodium azide, pH7.3 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

RNF213 / C17orf27 (internal) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF213 / C17orf27 (internal) Antibody (internal region) - 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: <http://www.uniprot.org/citations/21799892> target="_blank">21799892, PubMed: <http://www.uniprot.org/citations/26126547> target="_blank">26126547, PubMed: <http://www.uniprot.org/citations/26278786> target="_blank">26278786, PubMed: <http://www.uniprot.org/citations/26766444>)

target="_blank">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

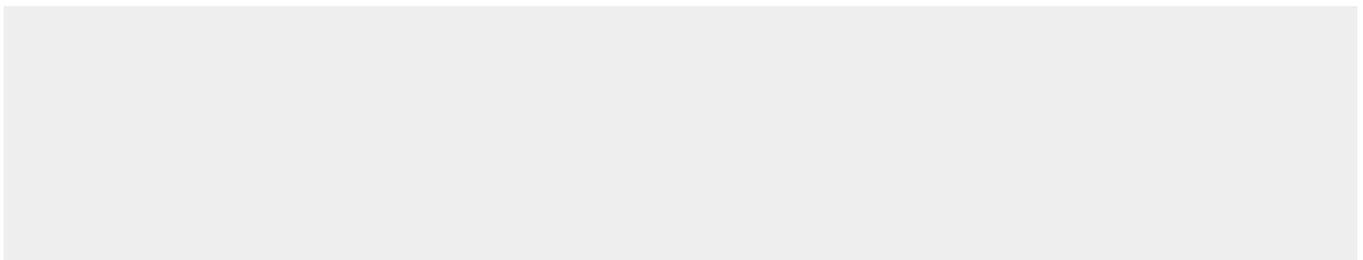
Widely expressed (at protein level). [Isoform 2]: Minor isoform with restricted expression.

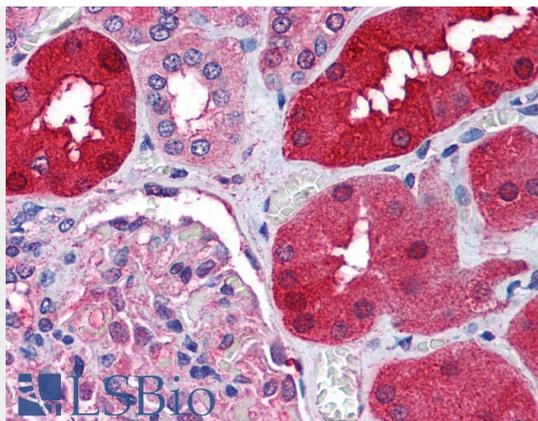
RNF213 / C17orf27 (internal) Antibody (internal region) - Protocols

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](#)

RNF213 / C17orf27 (internal) Antibody (internal region) - Images





AF2556a (1.25 $\mu\text{g/ml}$) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

RNF213 / C17orf27 (internal) Antibody (internal region) - References

DNA sequence of human chromosome 17 and analysis of rearrangement in the human lineage.
Zody MC et al Nature. 2006 Apr 20;440(7087):1045-9. PMID: 16625196