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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:21799892, PubMed:26126547, PubMed:26278786, PubMed:<a href="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.

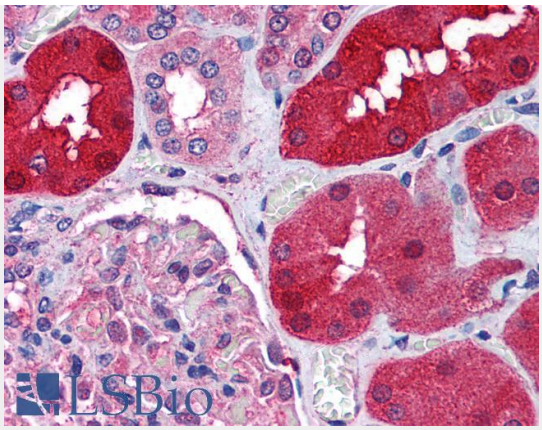
RNF213 / C17orf27 (internal) Antibody (internal region) - Protocols

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

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

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

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AF2556a (1.25 µg/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