

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

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

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Application       | IHC                                                 |
| Primary Accession | <a href="#">Q63HN8</a>                              |
| Other Accession   | <a href="#">NP_065965.3</a> , <a href="#">57674</a> |
| 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:<a href="http://www.uniprot.org/citations/21799892" target="\_blank">21799892</a>, PubMed:<a href="http://www.uniprot.org/citations/26126547" target="\_blank">26126547</a>, PubMed:<a href="http://www.uniprot.org/citations/26278786" target="\_blank">26278786</a>, PubMed:<a href="http://www.uniprot.org/citations/26766444" target="\_blank">26766444</a>)

target="\_blank">26766444</a>, PubMed:<a href="http://www.uniprot.org/citations/30705059" target="\_blank">30705059</a>, PubMed:<a href="http://www.uniprot.org/citations/32139119" target="\_blank">32139119</a>, PubMed:<a href="http://www.uniprot.org/citations/34012115" target="\_blank">34012115</a>). 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:<a href="http://www.uniprot.org/citations/34012115" target="\_blank">34012115</a>). Also acts indirectly by mediating the recruitment of the LUBAC complex, which conjugates linear polyubiquitin chains (PubMed:<a href="http://www.uniprot.org/citations/34012115" target="\_blank">34012115</a>). Ubiquitination of LPS triggers cell-autonomous immunity, such as antibacterial autophagy, leading to degradation of the microbial invader (PubMed:<a href="http://www.uniprot.org/citations/34012115" target="\_blank">34012115</a>). Involved in lipid metabolism by regulating fat storage and lipid droplet formation; act by inhibiting the lipolytic process (PubMed:<a href="http://www.uniprot.org/citations/30705059" target="\_blank">30705059</a>). Also regulates lipotoxicity by inhibiting desaturation of fatty acids (PubMed:<a href="http://www.uniprot.org/citations/30846318" target="\_blank">30846318</a>). Also acts as an E3 ubiquitin-protein ligase via its RING-type zinc finger: mediates 'Lys-63'-linked ubiquitination of target proteins (PubMed:<a href="http://www.uniprot.org/citations/32139119" target="\_blank">32139119</a>, PubMed:<a href="http://www.uniprot.org/citations/33842849" target="\_blank">33842849</a>). 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:<a href="http://www.uniprot.org/citations/26766444" target="\_blank">26766444</a>). Also has ATPase activity; ATPase activity is required for ubiquitination of LPS (PubMed:<a href="http://www.uniprot.org/citations/34012115" target="\_blank">34012115</a>).

**Cellular Location**

Cytoplasm, cytosol. Lipid droplet

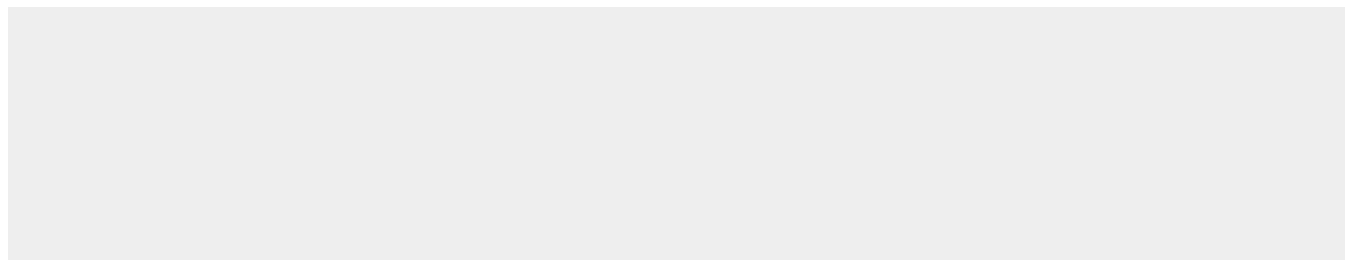
**Tissue Location**

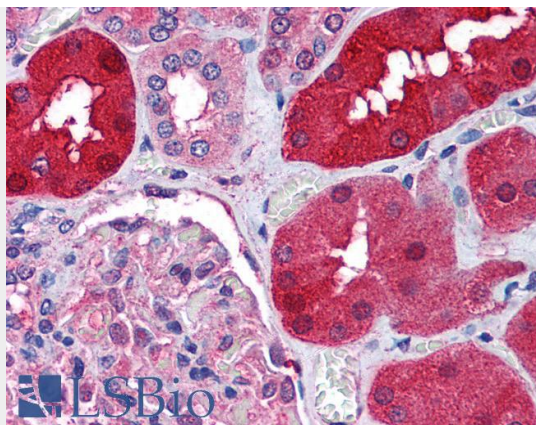
Widely expressed (at protein level). [Isoform 2]: Minor isoform with restricted expression.

**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 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