

RNF213 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS11896**Specification****RNF213 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	Q63HN8
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	591kDa KDa

RNF213 Antibody (Internal) - 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

Target/Specificity

Human RNF213.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

RNF213 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF213 Antibody (Internal) - 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](http://www.uniprot.org/citations/21799892), PubMed: [26126547](http://www.uniprot.org/citations/26126547), PubMed: [26278786](http://www.uniprot.org/citations/26278786), PubMed: [26766444](http://www.uniprot.org/citations/26766444), PubMed: [30705059](http://www.uniprot.org/citations/30705059), PubMed: [32139119](http://www.uniprot.org/citations/32139119), PubMed: [34012115](http://www.uniprot.org/citations/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

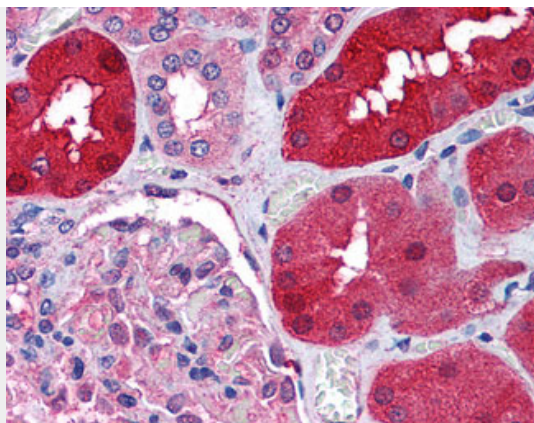
Widely expressed (at protein level). [Isoform 2]: Minor isoform with restricted expression.

RNF213 Antibody (Internal) - 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 Antibody (Internal) - Images



Anti-RNF213 antibody IHC of human kidney.

RNF213 Antibody (Internal) - Background

Probable E3 ubiquitin-protein ligase that may play a role in angiogenesis. May also have an ATPase activity.

RNF213 Antibody (Internal) - References

- Liu W.,et al.PLoS ONE 6:E22542-E22542(2011).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).
- Zody M.C.,et al.Nature 440:1045-1049(2006).
- Cools J.,et al.Genes Chromosomes Cancer 34:354-362(2002).
- Nagase T.,et al.DNA Res. 7:273-281(2000).