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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, PubMed:26126547, PubMed: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.

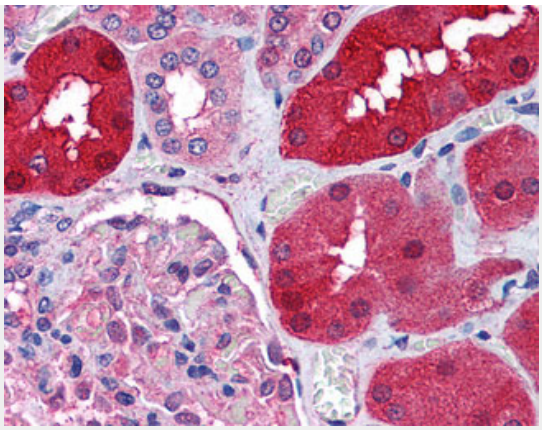
RNF213 Antibody (Internal) - Protocols

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

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

RNF213 Antibody (Internal) - Images

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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).