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Goat Anti-RNF34 / RFI (N Terminus) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1937a

Specification

Goat Anti-RNF34 / RFI (N Terminus) Antibody - Product Information

Application	**IHC, E**
Primary Accession	Q969K3
Other Accession	NP_079402, 80196, 80751 (mouse), 282845 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**41641**

Goat Anti-RNF34 / RFI (N Terminus) Antibody - Additional Information

Gene ID 80196

Other Names
E3 ubiquitin-protein ligase RNF34, 6.3.2.- {ECO:0000269|PubMed:25012219, ECO:0000269|Ref.13}, Caspase regulator CARP1, Caspases-8 and -10-associated RING finger protein 1, CARP-1, FYVE-RING finger protein Momo, RNF34 (HGNC:17297)

Dilution
IHC~~1:100~500
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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
Goat Anti-RNF34 / RFI (N Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RNF34 / RFI (N Terminus) Antibody - Protein Information

Name RNF34 (HGNC:17297)

Function
E3 ubiquitin-protein ligase that regulates several biological processes through the ubiquitin-mediated proteasomal degradation of various target proteins. Ubiquitinates the caspases CASP8 and CASP10, promoting their proteasomal degradation, to negatively regulate cell death downstream of death domain receptors in the extrinsic pathway of apoptosis (PubMed:15069192). May mediate 'Lys-48'-linked polyubiquitination of RIPK1 and its subsequent proteasomal degradation thereby indirectly regulating the tumor necrosis factor-mediated signaling pathway (Ref.13). Negatively regulates p53/TP53 through its direct ubiquitination and targeting to proteasomal degradation (PubMed:17121812). Indirectly, may also negatively regulate p53/TP53 through ubiquitination and degradation of SFN (PubMed:18382127). Mediates PPARGC1A proteasomal degradation probably through ubiquitination thereby indirectly regulating the metabolism of brown fat cells (PubMed:22064484). Possibly involved in innate immunity, through 'Lys-48'-linked polyubiquitination of NOD1 and its subsequent proteasomal degradation (PubMed:25012219).

Cellular Location
Cell membrane; Peripheral membrane protein. Endomembrane system {ECO:0000250|UniProtKB:Q6AYH3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q6AYH3}. Nucleus Nucleus speckle. Cytoplasm, cytosol

Tissue Location
Ubiquitous. Detected in heart, brain, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, colon and leukocytes.

Goat Anti-RNF34 / RFI (N Terminus) Antibody - 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

Goat Anti-RNF34 / RFI (N Terminus) Antibody - Images

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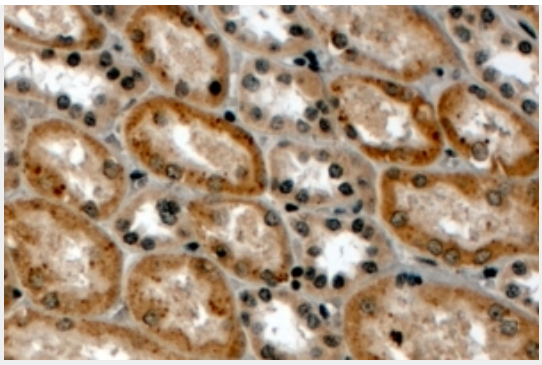

AF1937a (4 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

Goat Anti-RNF34 / RFI (N Terminus) Antibody - Background

The protein encoded by this gene contains a RINF finger, a motif known to be involved in protein-protein and protein-DNA interactions. This protein interacts with DNAJA3/hTid-1, which is a DnaJ protein reported to function as a modulator of apoptosis. Overexpression of this gene in Hela cells was shown to confer the resistance to TNF-alpha induced apoptosis, suggesting an anti-apoptotic function of this protein. This protein can be cleaved by caspase-3 during the induction of apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

Goat Anti-RNF34 / RFI (N Terminus) Antibody - References

CARPs enhance p53 turnover by degrading 14-3-3sigma and stabilizing MDM2. Yang W, et al. Cell Cycle, 2008 Mar 1. PMID 18382127.
CARPs are ubiquitin ligases that promote MDM2-independent p53 and phospho-p53ser20 degradation. Yang W, et al. J Biol Chem, 2007 Feb 2. PMID 17121812.
Overexpression of hRFI (human ring finger homologous to inhibitor of apoptosis protein type) inhibits death receptor-mediated apoptosis in colorectal cancer cells. Konishi T, et al. Mol Cancer Ther, 2005 May. PMID 15897238.
Effects of expression of hRFI on adenoma formation and tumor progression in colorectal adenoma-carcinoma sequence. Sasaki S, et al. J Exp Clin Cancer Res, 2004 Sep. PMID 15595643.
The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.