

Goat Anti-RNF7 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2227a

Specification

Goat Anti-RNF7 Antibody - Product Information

Application	WB
Primary Accession	Q9UBF6
Other Accession	NP_055060 , 9616 , 19823 (mouse)
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	12683

Goat Anti-RNF7 Antibody - Additional Information

Gene ID 9616

Other Names

RING-box protein 2, Rbx2, CKII beta-binding protein 1, CKBBP1, RING finger protein 7, Regulator of cullins 2, Sensitive to apoptosis gene protein, RNF7, RBX2, ROC2, SAG

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-RNF7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RNF7 Antibody - Protein Information

Name RNF7

Synonyms RBX2, ROC2, SAG

Function

Probable component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription (PubMed:<a

<http://www.uniprot.org/citations/10851089>). CRLs complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins, ARIH1 mediating addition of the first ubiquitin on CRLs targets (By similarity). Through the RING- type zinc finger, seems to recruit the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. Promotes the neddylation of CUL5 via its interaction with UBE2F. May play a role in protecting cells from apoptosis induced by redox agents.

Cellular Location

Cytoplasm. Nucleus

Tissue Location

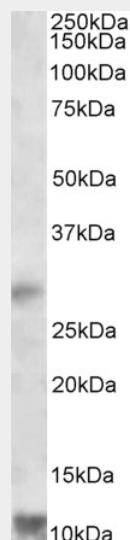
Expressed in heart, liver, skeletal muscle and pancreas. At very low levels expressed in brain, placenta and lung

Goat Anti-RNF7 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-RNF7 Antibody - Images



AF2227a (1 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-RNF7 Antibody - Background

The protein encoded by this gene is a highly conserved ring finger protein. It is an essential subunit of SKP1-cullin/CDC53-F box protein ubiquitin ligases, which are a part of the protein degradation machinery important for cell cycle progression and signal transduction. This protein interacts with,

and is a substrate of, casein kinase II (CSNK2A1/CKII). The phosphorylation of this protein by CSNK2A1 has been shown to promote the degradation of I κ B α (CHUK/IKK- α /IKBKA) and p27Kip1(CDKN1B). Alternatively spliced transcript variants encoding distinct isoforms have been reported.

Goat Anti-RNF7 Antibody - References

Validation of SAG/RBX2/ROC2 E3 ubiquitin ligase as an anticancer and radiosensitizing target. Jia L, et al. Clin Cancer Res, 2010 Feb 1. PMID 20103673.
E2-RING expansion of the NEDD8 cascade confers specificity to cullin modification. Huang DT, et al. Mol Cell, 2009 Feb 27. PMID 19250909.
Regulation of heat shock-induced apoptosis by sensitive to apoptosis gene protein. Lee SJ, et al. Free Radic Biol Med, 2008 Jul 15. PMID 18454945.
SAG/ROC2/RBX2 is a HIF-1 target gene that promotes HIF-1 α ubiquitination and degradation. Tan M, et al. Oncogene, 2008 Feb 28. PMID 17828303.
SAG/ROC-SCF β -TrCP E3 ubiquitin ligase promotes pro-caspase-3 degradation as a mechanism of apoptosis protection. Tan M, et al. Neoplasia, 2006 Dec. PMID 17217622.