ARG63424
anti-RANGAP1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes RANGAP1
Tested Reactivity	Hu, Ms
Predict Reactivity	Cow, Rat, Dog
Tested Application	IHC-P, WB
Specificity	Please note that in mouse, there is a hypothetical protein called "similar to RANGAP1" (XP_139737.2) that is virtually identical.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	RANGAP1
Species	Human
Immunogen	ASEDIAKLAETLAK-C
Conjugation	Un-conjugated
Alternate Names	RANGAP; Fug1; RanGAP1; Ran GTPase-activating protein 1; SD

Application Instructions

Application table

Application	Dilution
IHC-P	2 - 4 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note

IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

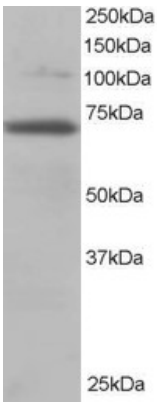
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

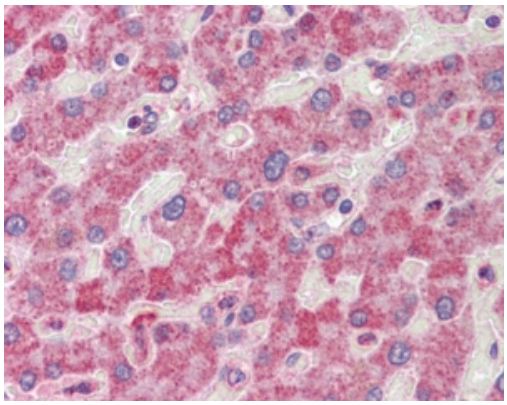
Database links	GeneID: 19387 Mouse GeneID: 5905 Human Swiss-port # P46060 Human Swiss-port # P46061 Mouse
Background	RanGAP1, is a homodimeric 65-kD polypeptide that specifically induces the GTPase activity of RAN, but not of RAS by over 1,000-fold. RanGAP1 is the immediate antagonist of RCC1, a regulator molecule that keeps RAN in the active, GTP-bound state. The RANGAP1 gene encodes a 587-amino acid polypeptide. The sequence is unrelated to that of GTPase activators for other RAS-related proteins, but is 88% identical to Fug1, the murine homolog of yeast Rna1p. RanGAP1 and RCC1 control RAN-dependent transport between the nucleus and cytoplasm. RanGAP1 is a key regulator of the RAN GTP/GDP cycle. [provided by RefSeq, Jul 2008]
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody
Calculated Mw	64 kDa
PTM	Phosphorylated occurs before nuclear envelope breakdown and continues throughout mitosis. Phosphorylated by the M-phase kinase cyclin B/Cdk1, in vitro. Differential timimg of dephosphorylation occurs during phases of mitosis. The phosphorylated form remains associated with RANBP2/NUP358 and the SUMO E2-conjugating enzyme, UBC9, on nuclear pore complex (NPC) diassembly and during mitosis. Sumoylated with SUMO1. Sumoylation is necessary for targeting to the nuclear envelope (NE), and for association with mitotic spindles and kinetochores during mitosis. Also required for interaction with RANBP2 and is mediated by UBC9.

Images



ARG63424 anti-RANGAP1 antibody WB image

Western Blot: 3T3 lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63424 anti-RANGAP1 antibody at 0.2 µg/ml dilution.



ARG63424 anti-RANGAP1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Liver. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63424 anti-RANGAP1 antibody at 2.5 µg/ml dilution followed by AP-staining.