ARG56988
anti-Ribonuclease Inhibitor antibody [1H23]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1H23] recognizes Ribonuclease Inhibitor
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1H23
Isotype	IgG2a, kappa
Target Name	Ribonuclease Inhibitor
Species	Human
Immunogen	Recombinant fragment around aa. 7-461 of Human Ribonuclease Inhibitor.
Conjugation	Un-conjugated
Alternate Names	RNH; Ribonuclease/angiogenin inhibitor 1; RAI; Ribonuclease inhibitor; Placental ribonuclease inhibitor; Placental RNase inhibitor

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	1:1000 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

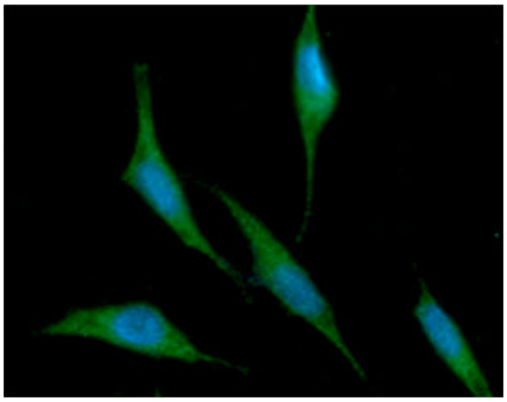
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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: 107702 Mouse GeneID: 6050 Human Swiss-port # P13489 Human Swiss-port # Q91VI7 Mouse
Gene Symbol	RNH1
Gene Full Name	ribonuclease/angiogenin inhibitor 1
Background	Placental ribonuclease inhibitor (PRI) is a member of a family of proteinaceous cytoplasmic RNase inhibitors that occur in many tissues and bind to both intracellular and extracellular RNases (summarized by Lee et al., 1988 [PubMed 3219362]). In addition to control of intracellular RNases, the inhibitor may have a role in the regulation of angiogenin (MIM 105850). Ribonuclease inhibitor, of 50,000 Da, binds to ribonucleases and holds them in a latent form. Since neutral and alkaline ribonucleases probably play a critical role in the turnover of RNA in eukaryotic cells, RNH may be essential for control of mRNA turnover; the interaction of eukaryotic cells with ribonuclease may be reversible in vivo.[supplied by OMIM, Jul 2010]
Function	Ribonuclease inhibitor which inhibits RNASE1, RNASE2 and ANG. May play a role in redox homeostasis. [UniProt]
Calculated Mw	50 kDa
PTM	The N-terminus is blocked. At least 30 of the 32 cysteine residues are in the reduced form.

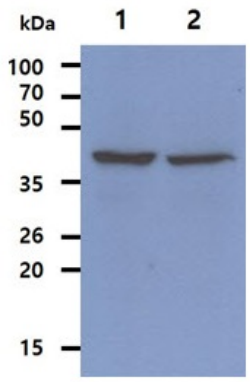
Images



ARG56988 anti-Ribonuclease Inhibitor antibody [1H23] ICC/IF image

Immunoflorescense: PC3 cell line stained with ARG56988 anti-Ribonuclease Inhibitor antibody [1H23] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG56988 anti-Ribonuclease Inhibitor antibody [1H23] WB image

Western blot: 40 µg of 1) Jurkat cell lysate, 2) HepG2 cell lysate stained with ARG56988 anti-Ribonuclease Inhibitor antibody [1H23] at 1:500.