

Product Name: KD-Validated RNH1 Mouse Monoclonal Antibody**Catalog #: KVA00292**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 50.0kDa

Antigen Information

Gene Name	RNH1 RNH1; Ribonuclease/Angiogenin Inhibitor 1; RAI; RNH; Placental Ribonuclease Inhibitor;
Alternative Names	Placental RNase Inhibitor; Ribonuclease Inhibitor; Ribonuclease/Angiogenin Inhibitor; Testicular Tissue Protein Li 164; IIAE12; PRI
Gene ID	6050.0
SwissProt ID	P13489
Immunogen	Recombinant protein of human RNH1

Background

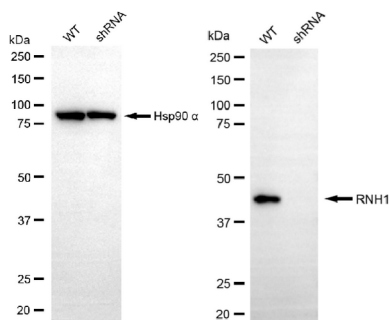
Placental ribonuclease inhibitor (PRI) is a member of a family of proteinaceous cytoplasmic RNase inhibitors that occur in many tissues and bind to both intracellular and extracellular RNases (summarized by Lee et al., 1988 [PubMed 3219362]). In addition

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]

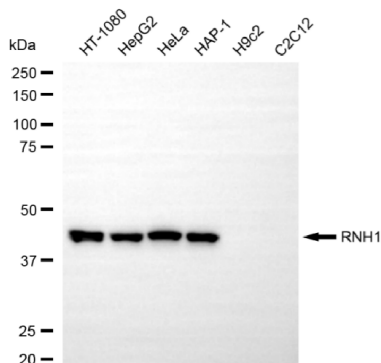
Research Area

Epigenetics and Nuclear Signaling

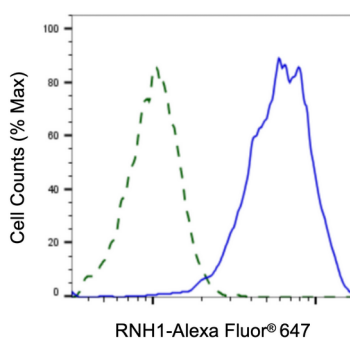
Image Data



Western blotting analysis using RNH1 antibody (KVA00292). RNH1 expression in wild-type (WT) and RNH1 shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RNH1 antibody (KVA00292, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using RNH1 antibody (KVA00292). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RNH1 antibody (KVA00292, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of RNH1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown (KD, Green) HepG2 cells were stained with RNH1 antibody (KVA00292, 1:2,000) and analyzed using BD flow cytometer.