10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-RIN1 Antibody

Catalog # AP51833

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q13671
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84099

Additional Information

Gene ID	9610
Other Names	Ras and Rab interactor 1; Ras inhibitor JC99; Ras interaction/interference protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RIN1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

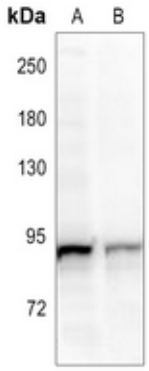
Protein Information

Name	RIN1
Function	Ras effector protein, which may serve as an inhibitory modulator of neuronal plasticity in aversive memory formation. Can affect Ras signaling at different levels. First, by competing with RAF1 protein for binding to activated Ras. Second, by enhancing signaling from ABL1 and ABL2, which regulate cytoskeletal remodeling. Third, by activating RAB5A, possibly by functioning as a guanine nucleotide exchange factor (GEF) for RAB5A, by exchanging bound GDP for free GTP, and facilitating Ras-activated receptor endocytosis.
Cellular Location	Cytoplasm. Membrane. Cytoplasm, cytoskeleton. Note=Some amount is membrane-associated
Tissue Location	Expressed in all tissues examined with high levels in brain, placenta and pancreas.

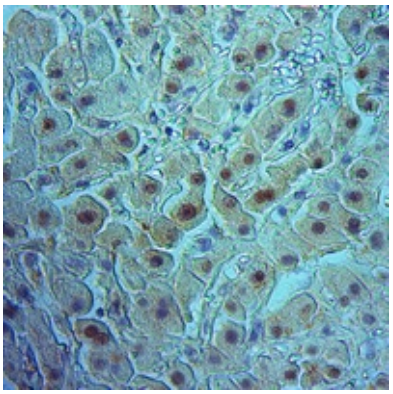
References

Colicelli J.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:2913-2917(1991).
Han L.,et al.Mol. Cell. Biol. 15:1318-1323(1995).
Han L.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:4954-4959(1997).
Afar D.E.H.,et al.Immunity 6:773-782(1997).
Tall G.G.,et al.Dev. Cell 1:73-82(2001).

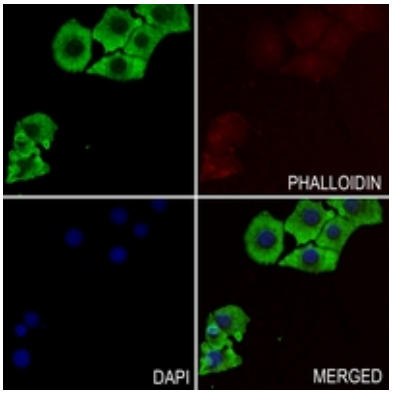
Images



Western blot analysis of RIN1 expression in U87MG (A), Panc1 (B) whole cell lysates. (Predicted band size: 84 kD; Observed band size: 90 kD)



Immunohistochemical analysis of RIN1 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RIN1 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.