



RIN1 Polyclonal Antibody

Catalog No	YP-Ab-04175
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA;IHC
Gene Name	RIN1
Protein Name	Ras and Rab interactor 1
Immunogen	The antiserum was produced against synthesized peptide derived from human RIN1. AA range:655-704
Specificity	RIN1 Polyclonal Antibody detects endogenous levels of RIN1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RIN1; Ras and Rab interactor 1; Ras inhibitor JC99; Ras interaction/interference protein 1
Observed Band	84kD
Cell Pathway	Cytoplasm . Membrane . Cytoplasm, cytoskeleton . Some amount is membrane-associated.
Tissue Specificity	Expressed in all tissues examined with high levels in brain, placenta and pancreas.
Function	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.,PTM:Phosphorylated on tyrosine residues by ABL1 and ABL2. Phosphorylated on Ser-351 by PKD.,similarity:Belongs to the RIN (Ras interaction/interference) family.,similarity:Contains 1 Ras-associating domain.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 VPS9 domain.,subcellular location:Some amount is membrane-associated.,subunit:Interacts with the GTP-boun



Background

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. PTM: Phosphorylated on tyrosine residues by ABL1 and ABL2. Phosphorylated on Ser-351 by PKD. similarity: Belongs to the RIN (Ras interaction/interference) family. similarity: Contains 1 Ras-associating domain. similarity: Contains 1 SH2 domain. similarity: Contains 1 VPS9 domain. subcellular location: Some amount is membrane-associated. subunit: Interacts with the GTP-bound form of Ras proteins (NRAS, HRAS and KRAS). This interaction prevents the association between RAF1 and Ras. Interacts with 14-3-3 proteins YWHAB, YWHAE and YWHAZ when phosphorylated on Ser-351. Interacts with the SH3 domain of ABL1 and ABL2. Interacts with RAB5A. The interaction with Ras is probably regulated and antagonized by the interaction with 14-3-3 proteins. The interaction with 14-3-3 proteins is regulated by phosphorylation on Ser-351. tissue specificity: Expressed in all tissues examined with high levels in brain, placenta and pancreas.

matters needing attention

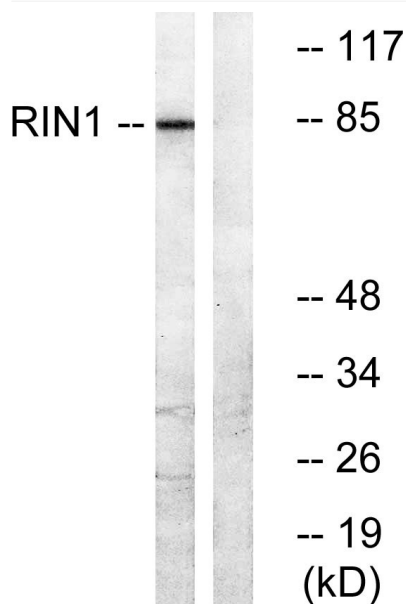
Avoid repeated freezing and thawing!

Usage suggestions

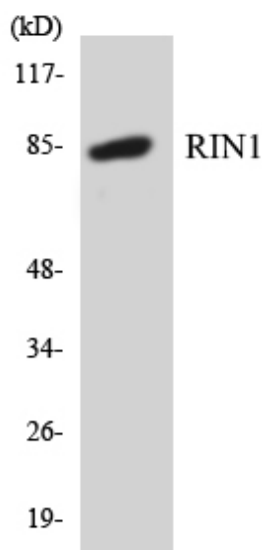
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



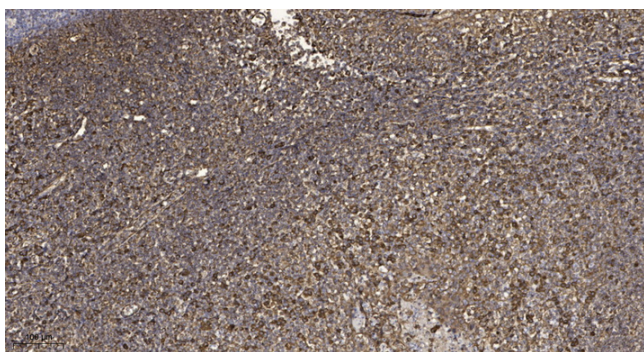
Products Images



Western blot analysis of lysates from K562 cells, using RIN1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using RIN1 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).