RELN Polyclonal antibody

Catalog Number:20689-1-AP   **1 Publications**

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Basic Information

Catalog Number:
20689-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_005045

GeneID (NCBI):
5649

UNIPROT ID:
P78509

Full Name:
reelin

Calculated MW:
388 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
IHC, IF-P, ELISA

Cited Applications:
IF

Species Specificity:
human, mouse

Cited Species:
pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human liver cancer tissue, human liver tissue

IF-P : mouse brain tissue,

Background Information

RELN belongs to the reelin family. It is an extracellular matrix serine protease that plays a role in layering of neurons in the cerebral cortex and cerebellum. It is a secreted glycoprotein which is essential for neuronal migration in the cortex. RELN regulates microtubule function in neurons and neuronal migration. It affects migration of sympathetic preganglionic neurons in the spinal cord, where it seems to act as a barrier to neuronal migration. Enzymatic activity is important for the modulation of cell adhesion. Binding to the extracellular domains of lipoprotein receptors VLDLR and ApoER2, RELN induces tyrosine phosphorylation of Dab1 and modulation of Tau phosphorylation. Defects in RELN are the cause of lissencephaly type 2 (LIS2).

Notable Publications

Author	Pubmed ID	Journal	Application
Lin Rao	37783617	Sci Bull (Beijing)	IF

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
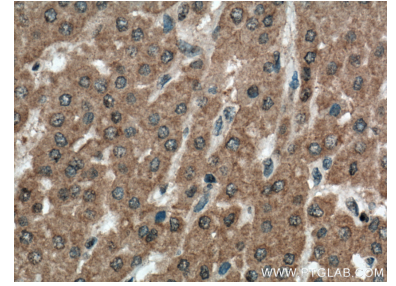Aliquoting is unnecessary for -20°C storage
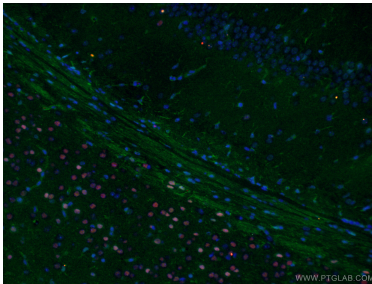
Selected Validation Data
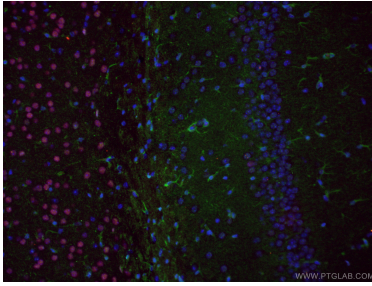
Dual immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 20689-1-AP (RELN antibody) at dilution of 1:50 and 66564-1-Ig (Tbr1 antibody), further stained with Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 20689-1-AP and Alexa Fluor 594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 66564-1-Ig.
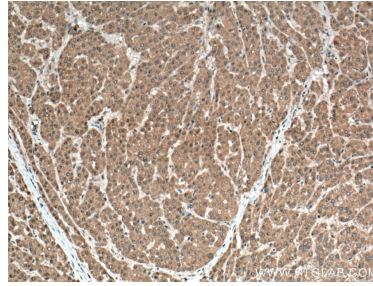
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20689-1-AP (RELN antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20689-1-AP (RELN antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Dual immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 20689-1-AP (RELN antibody) at dilution of 1:50 and 66564-1-Ig (Tbr1 antibody), further stained with Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 20689-1-AP and Alexa Fluor 594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 66564-1-Ig.