Collagen III Antibody

Catalog No: #33341

Package Size: #33341-1 50ul #33341-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Collagen III Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous levels of total collagen III protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human collagen III.
Conjugates	Unconjugated
Target Name	Collagen III
Other Names	Collagen alpha 1; Collagen alpha 1(III) chain [Precursor];
Accession No.	Swiss-Prot: P02461NCBI Gene ID: 1281
SDS-PAGE MW	138kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

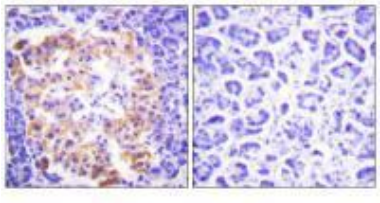
Application Details

Western blotting: 1:500~1:1000

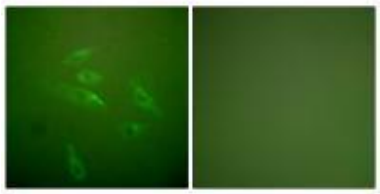
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:500

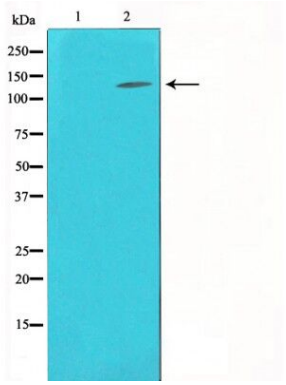
Images



Immunohistochemistry analysis of paraffin-embedded human pancreas tissue, using Collagen III antibody #33341.



Immunofluorescence analysis of HeLa cells, using Collagen III antibody #33341.



Western blot analysis of extracts from Hela, using Collagen III Antibody.,The lane on the left was treated with the antigen-specific peptide.

Background

Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of GPR56 in the developing brain and binding to GPR56 inhibits neuronal migration and activates the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12.

Arja Lamberg, J. Biol. Chem., May 1996; 271: 11988.

GW Conrad, J. Cell Biol., Mar 1980; 84: 501.

DR Keene, J. Cell Biol., Nov 1987; 105: 2393.

HM Wang, J. Histochem. Cytochem., Nov 1980; 28: 1215.

Published Papers

Yueying Kong;Zijing Lu;Jianan Zhan;Xi Zhou;Shenghua Chen;Qiwei Chen;Haihuan Gong;Xianlin Zhang;Xiaoyan Mao;Yilin Wang;Wenhua Huang el at., Enhancing auricular reconstruction: A biomimetic scaffold with 3D-printed multiscale porous structure utilizing chondrogenic activity ink., , (2025) PMID:39968521

Note: This product is for in vitro research use only and is not intended for use in humans or animals.