Product Datasheet

Collagen IV Antibody

Catalog No: #33342

Package Size: #33342-1 50ul #33342-2 100ul

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

Description

Product Name	Collagen IV 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	Hu Ms
Specificity	The antibody detects endogenous levels of total Collagen IV protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human Collagen IV.
Target Name	Collagen IV
Other Names	COL4A1 NC1 domain; COLLAGEN OF BASEMENT MEMBRANE; ALPHA-1 CHAIN ARRESTEN; alpha 1 type IV collagen preproprotein; collagen IV alpha-1 polypeptide
Accession No.	Swiss-Prot: P02462NCBI Gene ID: 1282
SDS-PAGE MW	160kd
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

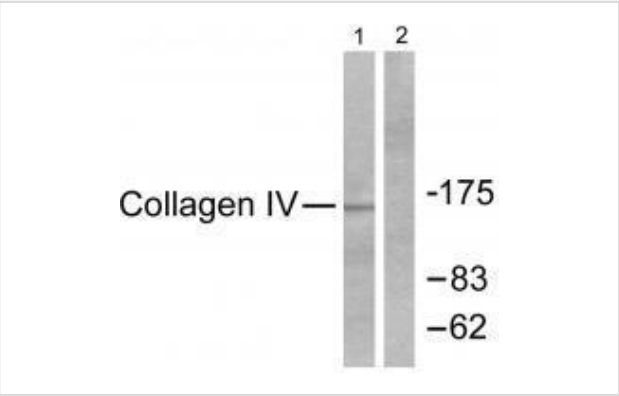
Application Details

Western blotting: 1:500~1:3000

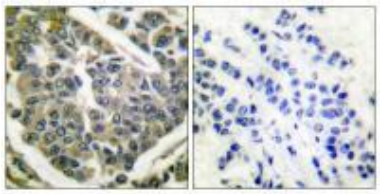
Immunohistochemistry: 1:50~1:100

IF 1:100-1:500

Images



Western blot analysis of extracts from HeLa cells, using Collagen IV antibody #33342.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Collagen IV antibody #33342.

Background

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.

Mary K. Chelberg, Cancer Res., Sep 1989; 49: 4796 - 4802.
Patricia L. Graham, J. Cell Biol., Jun 1997; 137: 1171.
PJ Lein, J. Cell Biol., Apr 1991; 113: 417.
EC Tsilibary, J. Biol. Chem., Dec 1988; 263: 19112 - 19118.

Published Papers

el at., Three-Dimensional Culture Promotes Secretion of Extracellular Matrix Structure Fat Flap with Lipoaspirates in Vitro. In Tissue Eng Part A on 2022 Nov by Jing Zhao, Xin Bi,et al..PMID: 36017621, , (2022)

PMID:36017621

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