

Datasheet for ABIN6654107
anti-Collagen IV antibody (AA 1445-1669)



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2 Images

Overview

Quantity:	100 µg
Target:	Collagen IV (COL4)
Binding Specificity:	AA 1445-1669
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Collagen IV antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human Collagen IV recombinant protein (amino acids G1445-T1669) was used as the immunogen for the Collagen IV antibody.
Clone:	3G3
Isotype:	IgG1
Purification:	Protein G affinity

Target Details

Target:	Collagen IV (COL4)
Alternative Name:	Collagen IV (COL4 Products)
Background:	COL4A1, also known as ICH or Collagen alpha-1(IV), is a protein that in humans is encoded by

Target Details

the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen chain of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. COL4A1 binds to alpha-1/beta-1 integrin and inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential therapeutic candidate for targeting tumor angiogenesis.

UniProt: [P02462](#)

Application Details

Application Notes: Optimal dilution of the Collagen IV antibody should be determined by the researcher.\. Western blot: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 1-2 µg/mL

Restrictions: For Research Use only

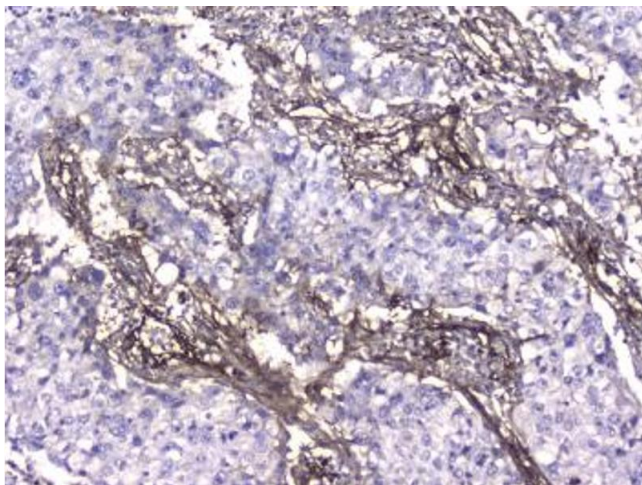
Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

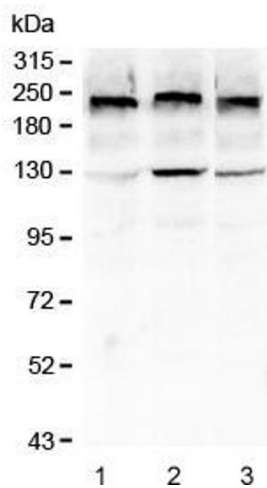
Storage Comment: After reconstitution, the Collagen IV antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



Immunohistochemistry

Image 1. IHC testing of FFPE human lung cancer with Collagen IV antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western Blotting

Image 2. Western blot testing of human 1) HEK293T, 2) HeLa and 3) A549 cell lysate with Collagen IV antibody at 0.5ug/ml. Predicted molecular weight ~160 kDa but may be observed at a larger size due to glycosylation.