Product datasheet Anti-COL4A1 Antibody (Clone#3G3) Catalog Number: M01411

antibody and ELISA experts BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Basic Inform	nation	
Product Name	Anti-COL4A1 Antibody (Clone#3G3)	
Gene Name	COL4A1	
Source	Mouse	
Clonality	Monoclonal	
lsotype	lgG1	
Species Reactivity	human	
Tested Application	IHC, WB, IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human Collagen IV recombinant protein (Position: G1445-T1669). Human Collagen IV shares 97% amino acid (aa) sequence identity with mouse Collagen IV.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	220 kDa	
Dilution Ratios		1:500-2000 1:50-400 1:50-400 ate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 n/paraffin sections.) Optimal working dilutions must be

Storage

12 months from date of receipt, -20° C as supplied.

Background Information

COL4A1, also known as ICH or Collagen alpha-1(IV), is a protein that in humans is encoded by 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.

Reference

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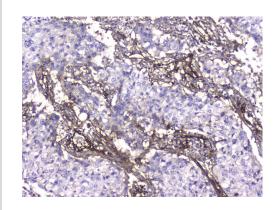
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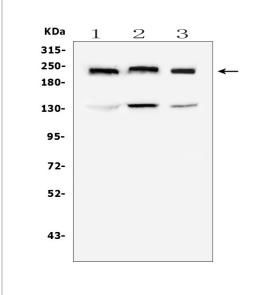
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Anti-COL4A1 Antibody (Clone#3G3)被引用在3文献中。

Selected Validation Data



IHC analysis of COL4A1 using anti-COL4A1 antibody (M01411). COL4A1 was detected in a paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-COL4A1 Antibody (M01411) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



Western blot analysis of COL4A1 using anti-COL4A1 antibody (M01411). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HEK293T whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human A549 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-COL4A1 antigen affinity purified monoclonal antibody (M01411) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for COL4A1 at approximately 220 kDa. The expected band size for COL4A1 is at 161 kDa.