For Research Use Only

COL4A1 Polyclonal antibody Catalog Number: 30850-1-AP 1 Publications

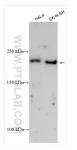


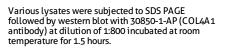
| Basic Information | Catalog Number: 30850-1-AP | GenBank Accession Number: BC151220 | | Purification Method: Antigen affinity Purification | |
|--------------------------|---|---------------------------------------|---------|---|--|
| | | | | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 | |
| | | | | | |
| | | | | | |
| | Immunogen Catalog Number:Calculated MW:AG343911669 aa, 161 kDa | | а | | |
| | | Observed MW: 160-220 kDa | | | |
| Applications | Tested Applications: Positive Controls: | | | | |
| | WB, IHC, ELISA WB : HeLa cells, SK-N-SH cells Cited Applications: | | | cells, SK-N-SH cells | |
| | IHC : human lung cancer tissue, human placenta tissue | | | | |
| | Species Specificity: human | | | | |
| | Cited Species: mouse | | | | |
| | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | | | |
| Background Information | COL4A1 (Collagen Type IV Alpha 1 Chain) encodes a major component of type IV collagen, which is an essential structural element of basement membranes in various tissues. COL4A1 forms heterotrimers with other collagen type IV chains (e.g., COL4A2) and interacts with extracellular matrix components such as laminins, proteoglycans, and perlecans. Proteolytic cleavage of the non-collagenous domain of COL4A1 produces a fragment called arresten, which has anti-angiogenic and tumor suppressor properties. Elevated expression of COL4A1 has been observed in various cancers, including hepatocellular carcinoma (HCC), where it promotes tumor growth and metastasis through the FAK-Src signaling pathway. COL4A1 is highly expressed in various tissues, including the placenta, fat, and other organs. The expression of COL4A1 can be regulated by transcription factors such as RUNX1, which has been shown to upregulate COL4A1 in hepatocellular carcinoma. The molecular weight of OSBPL5 is 160 kDa, and it also has glycosylation modification. | | | | |
| Notable Publications | Author | Pubmed ID | Journal | Application | |
| | Kaiyue Tan | | Sci Rep | IHC | |
| Storage | Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20 | nd 50% glycerol | | | |

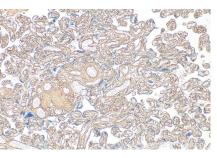
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

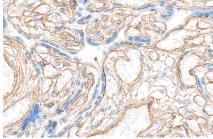
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



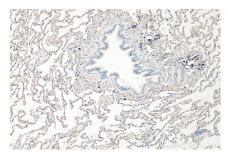




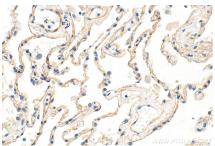


Immunohistochemical analysis of paraffin-
embedded human placenta tissue slide usingIn
embedded slide usi

Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).