10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Collagen 18 alpha 1 Antibody

Catalog # AP53893

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P39060
Reactivity	Human, Mouse, Rat, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	178188

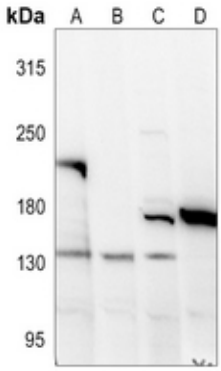
Additional Information

Gene ID	80781
Other Names	Collagen alpha-1(XVIII) chain
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Collagen 18 alpha 1. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

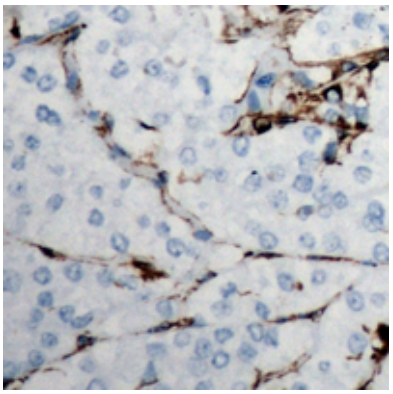
Protein Information

Name	COL18A1 (HGNC:2195)
Function	Probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250|UniProtKB:P39061} [Endostatin]: Secreted. Secreted, extracellular space, extracellular matrix, basement membrane
Tissue Location	Detected in placenta (at protein level) (PubMed:32337544). Present in multiple organs with highest levels in liver, lung and kidney.

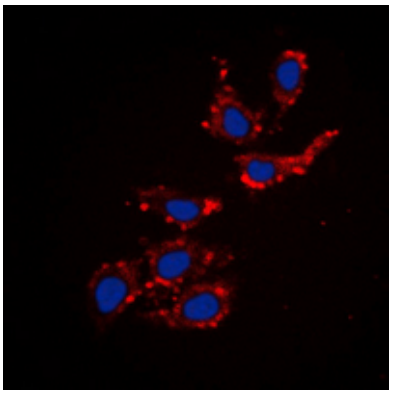
Images



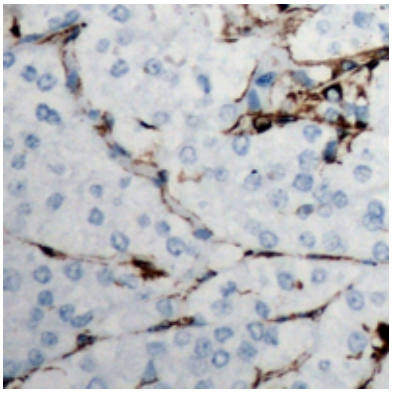
Western blot analysis of Collagen 18 alpha 1 expression in A549 (A), HEK293T (B), AML12 (C), PC12 (D) whole cell lysates. (Predicted band size: 178 kD; Observed band size: 178; 136 kD)



Immunohistochemical analysis of Collagen 18 alpha 1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Collagen 18 alpha 1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



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Citations

- Discovery of IgG4 Anti-Gliadin Autoantibody as a Potential Biomarker of Psoriasis Using an Autoantigen Array

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.