

Anti-Collagen 18 alpha 1 Antibody

Catalog # AP53893

Specification

Anti-Collagen 18 alpha 1 Antibody - Product Information

Application WB, IF, IHC
Primary Accession
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 178188

Anti-Collagen 18 alpha 1 Antibody - Additional Information

Gene ID 80781

Other Names

Collagen alpha-1(XVIII) chain

Target/Specificity

Recognizes endogenous levels of Collagen 18 alpha 1 protein.

Dilution

WB~~1/500 - 1/1000 IF~~1/50 - 1/200 IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Collagen 18 alpha 1 Antibody - 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



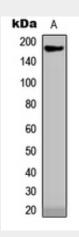
Detected in placenta (at protein level) (PubMed:32337544). Present in multiple organs with highest levels in liver, lung and kidney.

Anti-Collagen 18 alpha 1 Antibody - Protocols

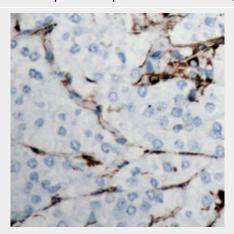
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Collagen 18 alpha 1 Antibody - Images

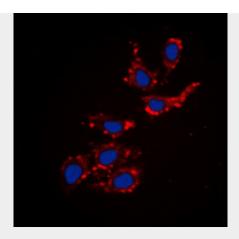


Western blot analysis of Collagen 18 alpha 1 expression in MCF7 (A) whole cell lysates.



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).

Anti-Collagen 18 alpha 1 Antibody - Background

Rabbit polyclonal antibody to Collagen 18 alpha 1 **Anti-Collagen 18 alpha 1 Antibody - Citations**

• <u>Discovery of IgG4 Anti-Gliadin Autoantibody as a Potential Biomarker of Psoriasis Using an</u>
<u>Autoantigen Array</u>