Collagen 3 alpha 1 monoclonal antibody

Catalog: MB66120 Host: Mouse Reactivity: Human

BackGround:

The Extracellular Matrix (ECM) is a complex network of macromolecules that provides structural tissue support to cells in the basement membrane and interstitial matrix. It is composed of many molecules including proteins, glycoproteins, proteoglycans, and polysaccharides . One of the major proteins that comprises the ECM, and the human body, is collagen. Collagens are a large family of proteins. They are trimeric molecules comprised of three alpha polypeptide chains that form a triple helix structure that is characteristic of all collagens . The large family of collagens is divided into three subgroups: fibrillar collagens, non-fibril forming collagens, and fibril-associated collagens. These subgroups differ in their structure and supramolecular assembly.

Product:

Mouse IgG2a. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 180 kDa

Swiss-Prot:

P02461

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/1000), IHC (1/100 - 1/300), IF (1/100 - 1/500)

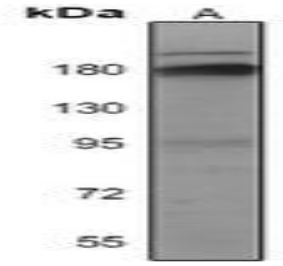
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

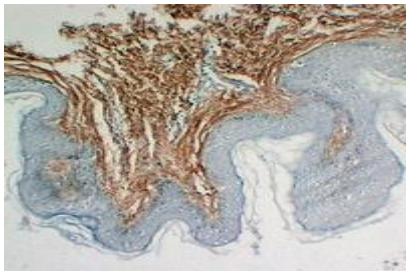
Specificity:

Recognizes endogenous levels of Collagen 3 alpha 1 protein.

DATA:



Western blot analysis of Collagen 3 alpha 1 expression in Hela (A) whole cell lysates.



Immunohistochemical analysis of Collagen 3 alpha 1 staining in human skin 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.

Note:

For research use only, not for use in diagnostic procedure.

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