

Mouse Anti-Collagen VII [LH7.2]: MC0505, MC0505RTU7

Intended Use: For Research Use Only

Description: Recognizes an epitope located on collagenase digested Type VII collagen (150kDa), i.e. the non-helical carboxyl terminal region of the dimer. Binding is localized at the inferior border of the lamina densa as demonstrated by immunoelectron microscopy. Type VII is also found in the retina, where its function is unknown. It interacts with Laminin 5 and Fibronectin. Collagen VII is a stratified squamous epithelial basement membrane protein that forms anchoring fibrils which may contribute to epithelial basement membrane organization and adherence by interacting with extracellular matrix (ECM) proteins such as type IV collagen.

Specifications:

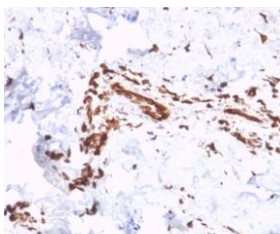
Clone: LH7.2
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, sheep, goat, horse, guinea pig, cow
 Localization: Secreted. extracellular matrix. basement membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF, WB
 Package:

Description	Catalog No.	Size
Collagen VI Concentrated	MC0505	1 ml
Collagen VI Prediluted	MC0505RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: HeLa cells, lymphocytes, lymph node, tonsil
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human skin stained with anti-Collagen VII using DAB

References:

1. Fully Three-Dimensional Bioprinted Skin Equivalent Constructs with Validated Morphology and Barrier Function. Derr K, et al. Tissue Eng Part C Methods 25:334-343, 2019.
2. Identification of HIV transmitting CD11c+ human epidermal dendritic cells. Bertram KM, et al. Nat Commun 10:2759 2019.
3. Human retinal Müller cells synthesize collagens of the vitreous and vitreoretinal interface in vitro. Ponsioen TL, et al. Mol Vis 14:652-60, 2008.