

Mouse Anti-Cytokeratin 1 [LHK1]: MC0401, MC0401RTU7

Intended Use: For Research Use Only

Description: Keratins are a family of intermediate filament proteins that assemble into filaments through forming heterodimers of one type I keratin (keratins 9 to 23) and one type II keratin (keratins 1 to 8). Keratins demonstrate tissue and differentiation specific expression profiles. Cytokeratin 1 is a hetero-tetramer of two type I as well as two type II keratins, keratin 10. Keratin 1 is differentiation specific keratin that is one of the predominant keratins in suprabasal keratinocytes in stratified epithelia. Mutations in keratin 1 cause epidermolytic hyperkeratosis.

Specifications:

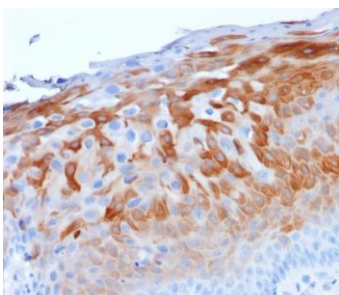
Clone: LHK1
 Source: Mouse
 Isotype: IgG2a/k
 Reactivity: Human, rat
 Immunogen: 13-amino acid peptide (VRFVSTSYSGVTR) from human KRT1 protein C-terminus
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Cytokeratin 1 Concentrated	MC0401	1 ml
Cytokeratin 10 Prediluted	MC0401RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Skin, cervix
 Concentrated Dilution: 100-500
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 cervix stained with anti-CK1 using DAB

References:

1. Immunofluorescence Tomography: High-resolution 3-D reconstruction by serial-sectioning of methacrylate embedded tissues and alignment of 2-D immunofluorescence images. Parfitt GJ. Sci Rep 9:1992, 2019.
2. Rab25 Deficiency Perturbs Epidermal Differentiation and Skin Barrier Function in Mice. Jeong H, et al. Biomol Ther (Seoul) 27:553-561, 2019.
3. The Transmembrane Serine Protease HAT-like 4 Is Important for Epidermal Barrier Function to Prevent Body Fluid Loss. Zhang Z, et al. Sci Rep 7:45262, 2017.