

Mouse Anti-Cytokeratin 14 [LL002]: MC0111, MC0111RTU7

Intended Use: For Research Use Only

Description: Cytokeratin 14 (CK14) is a 50-kDa keratin expressed in abundance in stratified epithelial cells, epidermal cells, basal cells, mesothelial cells, and myoepithelial cells in various tissues including breast and prostate. CK14 is helpful in the identification of breast cancer with basal phenotype. It has been reported that cytokeratin 5/14-positive breast cancers are true basal phenotype confined to BRCA1 tumors. Along with p63 and CK5, CK14 has been a useful marker for cells with basal, squamous and myoepithelial differentiation.

Specifications:

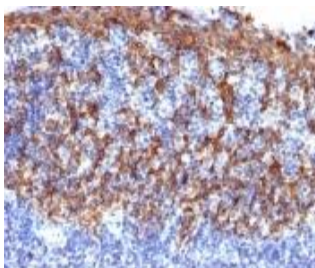
Clone: LL002
Source: Mouse
Isotype: IgG3
Reactivity: Human, mouse, rat
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt., IF
Package:

Description	Catalog No.	Size
Cytokeratin 14 Concentrated	MC0111	1 ml
Cytokeratin 14 Prediluted	MC0111RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Skin, SqCC
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0, 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 prostate stained with anti-CK14 using DAB

References:

1. Cellular heterogeneity in the mouse esophagus implicates the presence of a nonquiescent epithelial stem cell population. DeWard AD, et al. Cell Rep 9:701-11, 2014.
2. CD66+ cells in cervical precancers are partially differentiated progenitors with neoplastic traits. Pattabiraman C, et al. Cancer Res 74:6682-92, 2014.
3. Keratin 76 is required for tight junction function and maintenance of the skin barrier. Tommaso T, et al. PLoS Genet 10:e1004706, 2014.
4. A transgenic mouse model for early prostate metastasis to lymph nodes. Ko HK, et al. Cancer Res 74:945-53, 2014. Impaired hair growth and wound healing in mice lacking thyroid hormone receptors. Contreras-Jurado C, et al. PLoS One 9:e108137, 2014.

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Rev. A

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