

**Mouse Anti-Cytokeratin 20 [Ks20.8]: MC0114, MC0114RTU7**

**Intended Use:** For Research Use Only

**Description:** Intermediate-sized filament (IF) protein designated cytokeratin 20 (CK20) is a major cellular protein of mature enterocytes and goblet cells commonly found in mucosal epithelium of the mammalian gastrointestinal tract. Results strongly suggest that transcriptional regulation of keratin genes in the intestinal epithelium occurs at the level of both immature and terminally differentiated epithelial cells, and is tightly regulated during both fetal development and crypt-to-villus differentiation of the intestinal epithelium. CK20 has recently been reported to be useful to distinguish between primary and metastatic lung adenocarcinoma. CK20 expression was significantly more prevalent in adenocarcinoma that originated in the GI tract than that of pulmonary or breast origin.

**Specifications:**

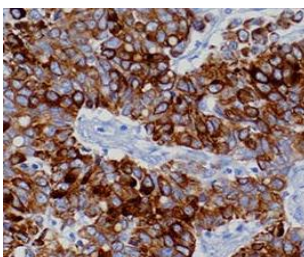
Clone: Ks20.8  
Source: Mouse  
Isotype: IgG2a  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt, ICC/IF, WB  
Package:

Description	Catalog No.	Size
Cytokeratin 20 Concentrated	MC0114	1 ml
Cytokeratin 20 Prediluted	MC0114RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Colon, colon cancer  
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 metastatic colorectal carcinoma stained with anti-CK20 using DAB

**References:**

1. Three differentiation states risk-stratify bladder cancer into distinct subtypes. Volkmer JP, et al. Proc Natl Acad Sci U S A 109:2078-83, 2012.
2. Expansion of CD133(+) colon cancer cultures retaining stem cell properties to enable cancer stem cell target discovery. Fang DD, et al. Br J Cancer : 2010.
3. Localization of Merkel cells in the monkey skin: an anatomical model. Güçlü B, et al. Somatosens Mot Res 25:123-38, 2008.
4. Metastatic adenocarcinoma to the brain: an immunohistochemical approach. Perry A, et al. Hum Pathol 28:938-43, 1997.

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Rev. A