



## Cytokeratin 18

Rabbit Polyclonal Antibody | Product Data Sheet

Quantity: 100ul

Clone ID: polyclonal

Species Cross-reactivity\* + Human + Mouse + Ra Applications: + WB + IHC + ICC + IP + FC Catalog# 1924-1

Lot #: Please refer to vial Molecular Wt.: 45 kDa UniProt ID: P05783

Background: Cytokeratin 18 (CK-18), a normal constituent of the hepatocyte cytoskeleton, is a standard tumor marker. CK-18 is elevated in patients with non-malignant liver diseases, particularly in those with prominent cytolysis (1). CK-18 and the homologous mouse Endo B are type I IF protein subunits whose expression is restricted in adults to a variety of simple epithelial tissues. Keratin 8 and 18 (CK8/18) are the major keratin pair in simple-type epithelia, as found in the liver, pancreas, and intestine. Transgenic mice that express mutant keratin 18 develop chronic hepatitis, and have an increased susceptibility to druginduced hepatotoxicity (2). Studies shows that high CK18 expression in tumor cells is associated with reduced invasiveness in vitro and lack of tumorigenicity in nude mice. It has been shown that high K18 expression correlated with a good prognosis and that reducing K18 expression increased the aggressiveness of established breast cancer cell lines (3).

**Specificity:** A synthetic peptide corresponding to residues on the C-terminus of human CK-18 was used as an immunogen.

**Storage Condition and Buffer:** Store at -20 °C. Buffer: Antibody buffer, sodium azide, glycerol, and BSA. Stable for 12 months from date of receipt.

## **Recommended Dilutions:**

**WB:** 1:10,000 - 50,000 **IHC:** 1:250 - 500 **ICC:** 1:250 - 500

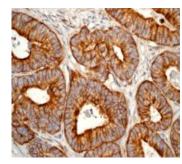
**IP:** 1:100 **FC:** 1:15

## **Background References:**

- 1. Gonzalez-Quintela A, et al. Liver Int 26(10):1217-24, 2006.
- 2. Ku, NO, et al. J. Clin Invest 99(1):19-23, 1997.
- 3. Buhler H, et al. Mol Cancer Res3(7):365-71, 2005.

kDa 250-150-100-75-50-37-25-20-15-

**Fig 1.** A. Western blot analysis on A431 cell lysate of using anti-CK-18 Rabbit Polyclonal (cat. # 1924-1), dilution 1:50,000



**Fig 2.** B. Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma cells using anti-CK-18 RabPAb (cat. #1924-1).

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com

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<sup>\*</sup>Cross reactivity determined by western blot only.