Monoclonal Antibody to CK1

Cat. #:Mab-606075

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Description:
CK1 (also designated Cytokeratin 1 or KRT1),with 644-amino acid protein (about 70kDa), is a member of the keratin family. Cytokeratins play a critical role in differentiation and tissue specialization, and they function to maintain the overall structural integrity of epithelial cells.CK1 consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. CK1 is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma.

Immunogen/Specificity:
Ni-NTA purified truncated recombinant CK1 expressed in E. Coli strain BL21 (DE3)

Applications
Western Blot: 1: 500- 1: 2,000
IHC(P): 1: 500- 1: 2,000
IHC(F): 1: 500- 1: 2,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.*

Formulation
Crude ascites.

References
1. Ricardo G. Espinola, Robin A. Pixley, Berhane Ghebrehiwet
Blood (ASH Annual Meeting Abstracts), Nov 2005; 106: 2666

Clone Number: 3C10F7,3C10G5
Isotype: IgG1
Species: Human
Storage and Stability: at -20oC

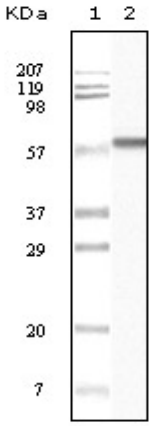

Figure 1: Western blot analysis using anti- human CK1 monoclonal antibody against truncated CK1 recombinant protein.

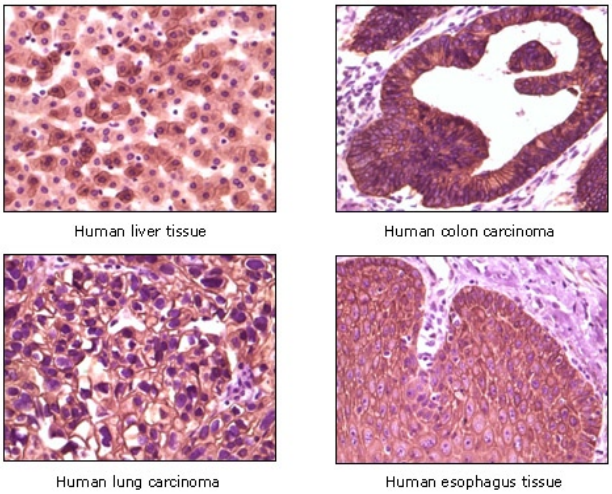

Figure 2: Immunohistochemical analysis of paraffin-embedded human liver tissue, colon carcinoma, lung carcinoma and esophagus tissue, showing membrane localization using CK1 antibody with DAB staining.

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