

Monoclonal Antibody to CK1

Cat. #:Mab-606075

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

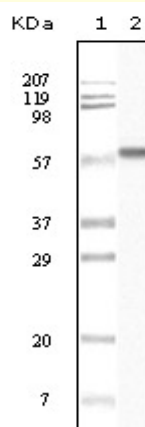
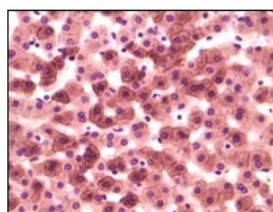
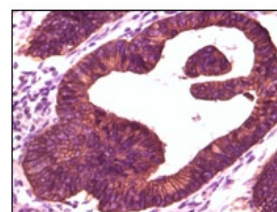


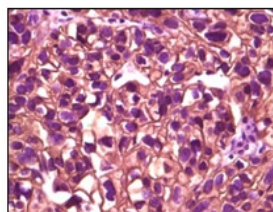
Figure 1: Western blot analysis using anti- human CK1 monoclonal antibody against truncated CK1 recombinant protein.



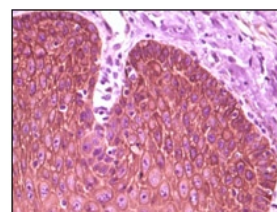
Human liver tissue



Human colon carcinoma



Human lung carcinoma



Human esophagus tissue

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.