

CK8 Monoclonal Antibody(8G8)

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| Catalog No : | YM3055 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | IF;WB;IHC |
| Target : | Cytokeratin 8 |
| Gene Name : | KRT8 |
| Protein Name : | Keratin type II cytoskeletal 8 |
| Human Gene Id : | 3856 |
| Human Swiss Prot No : | P05787 |
| Mouse Gene Id : | 16691 |
| Mouse Swiss Prot No : | P11679 |
| Rat Gene Id : | 25626 |
| Rat Swiss Prot No : | Q10758 |
| Immunogen : | Synthetic Peptide of CK8 |
| Specificity : | The antibody detects endogenous CK8 proteins. |
| Formulation : | PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol. |
| Source : | Monoclonal, Mouse |
| Dilution : | IF 1:50-200 WB 1:2000-5000 IHC 1:200 |
| Purification : | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. |

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 54kD

Background : keratin 8(KRT8) Homo sapiens This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012],

Function : disease:Defects in KRT8 are a cause of cryptogenic cirrhosis [MIM:215600].,function:Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).,PTM:O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.,PTM:Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization.,similarity:Belongs to the intermediate filament family.,subunit:Heterotetramer of two type I and two type II keratins. keratin-8 associates with keratin-18. Associates with KRT20. Interacts with HCV core protein and PNN. When associated with KRT19, interacts with DMD. Interacts with TCHP.,tissue spec

Subcellular Location : Cytoplasm . Nucleus, nucleoplasm . Nucleus matrix .

Expression : Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.

Tag : hot

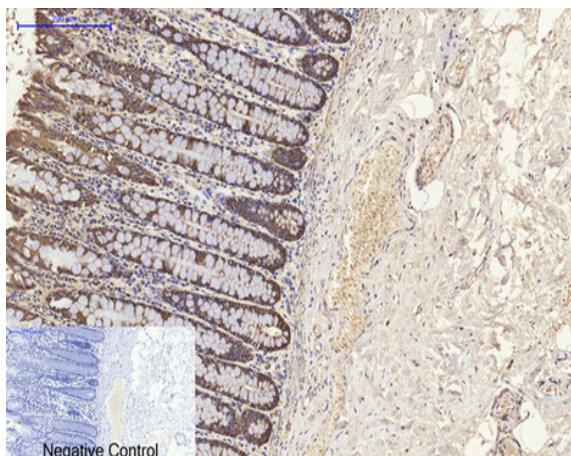
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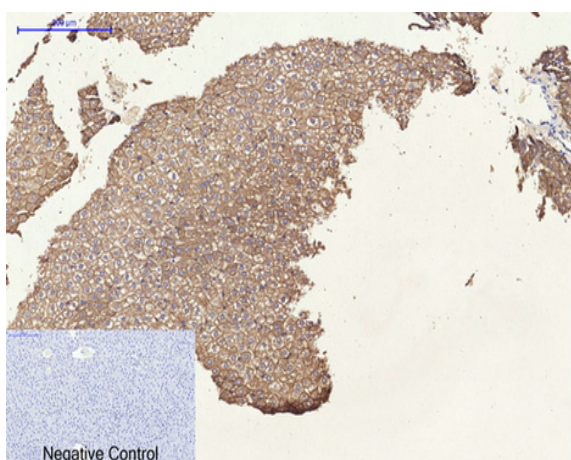
Host : Mouse

Modifications : Unmodified

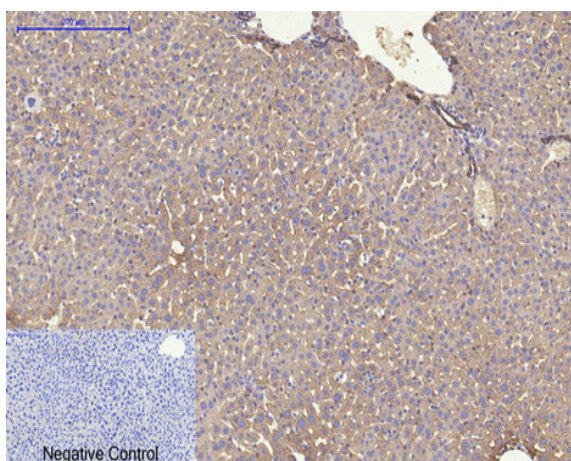
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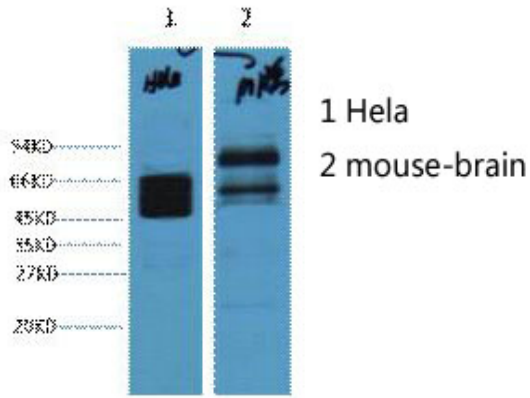
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,CK8 Monoclonal Antibody(8G8) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room teperature, 30min). Negative control was used by secondary antibody only.



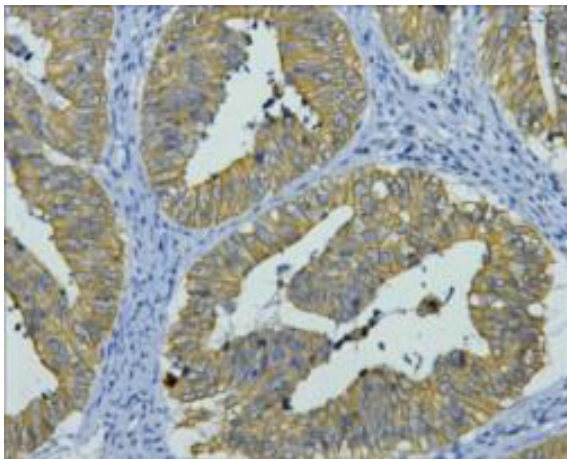
Immunohistochemical analysis of paraffin-embedded Rat-liver tissue. 1,CK8 Monoclonal Antibody(8G8) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room teperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,CK8 Monoclonal Antibody(8G8) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room teperature, 30min). Negative control was used by secondary antibody only.



Western blot analysis of 1) HeLa, 2) Mouse Brain, diluted at 1:4000.



IHC staining of human colon cancer tissue, diluted at 1:200.