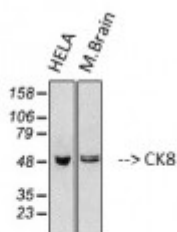


Anti-CK8 antibody



Western Blot (WB) analysis of 1. HELA 2. Mouse brain cells using CK8 Monoclonal Antibody. (STJ96957)



Description

CK8 is a protein encoded by the KRT8 gene which is approximately 53,7 kDa. CK8 is localised to the cytoplasm and nucleus. It is involved in cytoskeletal signalling, developmental biology, keratinization and primary focal segmental glomerulosclerosis. It dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells and plays a role in maintaining cellular structural integrity, signal transduction and cellular differentiation. CK8 is expressed in the intestine, liver, lung, pancreas and kidney. Mutations in the KRT8 gene may result in cirrhosis. STJ96957 was developed from clone 8G8 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This primary antibody detects endogenous CK8 proteins.

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|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | STJ96957 |
| Host | Mouse |
| Reactivity | Human, Mouse, Rat |
| Applications | IHC, WB |
| Immunogen | Synthetic Peptide |
| Gene ID | 3856 |
| Gene Symbol | KRT8 |
| Dilution range | WB 1:2000-5000IHC 1:200 |
| Specificity | The antibody detects endogenous CK8 proteins. |
| Tissue Specificity | 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. |

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|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. |
| Clone ID | 8G8 |
| Note | For Research Use Only (RUO). |
| Protein Name | Keratin, type II cytoskeletal 8 Cytokeratin-8 CK-8 Keratin-8 K8 Type-II keratin Kb8 |
| Clonality | Monoclonal |
| Conjugation | Unconjugated |
| Isotype | IgG1 |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage Instruction | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| Database Links | HGNC:6446OMIM:148060 |
| Alternative Names | Keratin, type II cytoskeletal 8 Cytokeratin-8 CK-8 Keratin-8 K8 Type-II keratin Kb8 |
| Function | Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle. |
| Cellular Localization | Cytoplasm Nucleus, nucleoplasm Nucleus matrix |
| Post-translational Modifications | Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation.; O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner. |