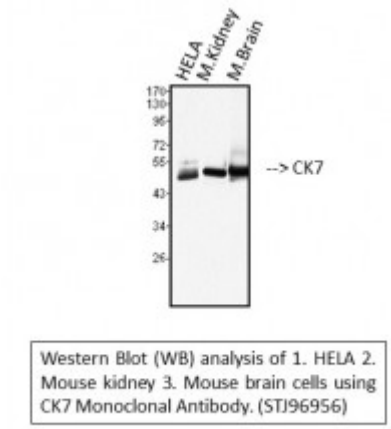
Anti-CK7 antibody



Western Blot (WB) analysis of 1. HELA 2. Mouse kidney 3. Mouse brain cells using CK7 Monoclonal Antibody. (STJ96956)

Description	CK7 is a protein encoded by the KRT7 gene which is approximately 51,3 kDa. CK7 is localised to the cytoplasm. It is involved in cytoskeletal signalling, developmental biology and keratinization. It is a type II cytokeratin that consists of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains co-expressed during differentiation of simple and stratified epithelial tissues. It also blocks interferon-dependent interphase and stimulates DNA synthesis in cells. CK7 is expressed in epidermal, bronchial and mesothelial cells. Mutations in the KRT7 gene may result in pseudo myxoma peritonei and eccrine adenocarcinoma. STJ96956 was developed from clone 12D7 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This antibody detects endogenous CK7 proteins.

Model	STJ96956
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	IHC, IP, WB
Immunogen	Synthetic Peptide
Gene ID	3855
Gene Symbol	KRT7
Dilution range	WB 1:1000-2000IHC 1:200IP 1:200
Specificity	The antibody detects endogenous CK7 proteins.
Tissue Specificity	Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the

	junction between stomach and esophagus but is absent in the esophagus.
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	12D7
Note	For Research Use Only (RUO).
Protein Name	Keratin, type II cytoskeletal 7 Cytokeratin-7 CK-7 Keratin-7 K7 Sarcolectin Type-II keratin Kb7
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:6445OMIM:148059
Alternative Names	Keratin, type II cytoskeletal 7 Cytokeratin-7 CK-7 Keratin-7 K7 Sarcolectin Type-II keratin Kb7
Function	Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7).
Cellular Localization	Cytoplasm
Post-translational Modifications	Arg-20 is dimethylated, probably to asymmetric dimethylarginine.