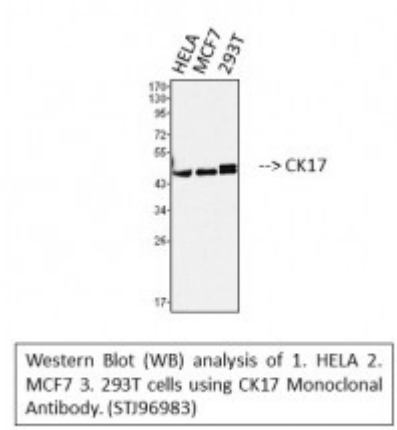
Anti-CK17 antibody



Western Blot (WB) analysis of 1. HELA 2. MCF7 3. 293T cells using CK17 Monoclonal Antibody. (STJ96983)

Description	CK17 is a protein encoded by the KRT17 gene which is approximately 48,1 kDa. CK17 is localised to the cytoplasm. It is involved in the cytoskeletal signalling, developmental biology, keratinization and the glucocorticoid receptor regulatory network. It is a type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. CK17 is expressed in the outer root sheath and medulla region of hair follicle. Mutations in the KRT17 gene may result in congenital pachyonychia. STJ96983 was developed from clone 10A1 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. The antibody detects CK17 endogenous proteins.

Model	STJ96983
Host	Mouse
Reactivity	Human
Applications	IP, WB
Immunogen	Synthetic Peptide
Gene ID	3872
Gene Symbol	KRT17
Dilution range	WB 1:1000IP 1:200
Specificity	The antibody detects CK17 endogenous proteins.
Tissue Specificity	Expressed in the outer root sheath and medulla region of hair follicle specifically from eyebrow and beard, digital pulp, nail matrix and nail bed epithelium, mucosal stratified squamous epithelia and in basal cells of oral

	epithelium, palmoplantar epidermis and sweat and mammary glands. Also expressed in myoepithelium of prostate, basal layer of urinary bladder, cambial cells of sebaceous gland and in exocervix (at protein level).
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	10A1
Note	For Research Use Only (RUO).
Protein Name	Keratin, type I cytoskeletal 17 39.1 Cytokeratin-17 CK-17 Keratin-17 K17
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:6427OMIM:148069
Alternative Names	Keratin, type I cytoskeletal 17 39.1 Cytokeratin-17 CK-17 Keratin-17 K17
Function	Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair . Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state . Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway . Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors . May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation.
Cellular Localization	Cytoplasm
Post-translational Modifications	Phosphorylation at Ser-44 occurs in a growth- and stress-dependent fashion in skin keratinocytes, it has no effect on filament organization.