

pan Cytokeratin Antibody FITC Conjugated

Catalog No: #C03645F

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Description

Product Name	pan Cytokeratin Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	Flow-Cyt, ICC/IF
Species Reactivity	Hu Ms Rt Pig
Immunogen Description	KLH conjugated synthetic peptide aa 170-210 644 derived from human pan cytokeratin
Conjugates	FITC
Target Name	pan Cytokeratin
Other Names	pan-cytokeratin; pan-CK; pan CK; P-CK; wide spectrum Cytokeratin; Cytokeratins; [cytokeratins 1, 2,4,5,6,7,8,71,72,75,78].
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Storage	Store at 4C for 12 months.

Application Details

Flow-Cyt=1µg /test, ICC/IF=1:100

Background

Cytokeratins are proteins of keratin-containing intermediate filaments found in the intracytoplasmic cytoskeleton of epithelial tissue. The cytokeratins are encoded by a family encompassing 30 genes. Among them, 20 are epithelial genes and the remaining 10 are specific for trichocytes. In the cytoplasm, the keratin filaments conform a complex network which extends from the surface of the nucleus to the cell membrane. Numerous accessory proteins are involved in the genesis and maintenance of such structure. This association between the plasma membrane and the nuclear surface provides important implications for the organization of the cytoplasm and cellular communication mechanisms. Apart from the relatively static functions provided in terms of supporting the nucleus and providing tensile strength to the cell, the cytokeratin networks undergo rapid phosphate exchanges mediated depolymerization, with important implications in the more dynamic cellular processes such as mitosis and post-mitotic period, cell movement and differentiation. Cytokeratins interact with desmosomes and hemidesmosomes, thus collaborating to cell-cell adhesion and basal cell-underlying connective tissue connection.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.