

iFluor™ 594 Conjugated Anti-Cytokeratin 17 Antibody [SR45-06]

HA720116F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	IF-Tissue, IF-Cell
Molecular Wt:	Predicted band size: 48 kDa
Clone number:	SR45-06

Description: Cytokeratin 17 is a member of the Cytokeratin subfamily of intermediate filament proteins (IFPs). It is unique in that it is normally expressed in the basal cells of complex epithelia but not in stratified or simple epithelia. Cytokeratin 17 contains 432 amino acids and is expressed in the nail bed, hair follicle, sebaceous glands and other epidermal appendages. Cytokeratin 17 functions to regulate cell growth and size through its interactions with the adaptor protein 14-3-3-sigma to mediate protein synthesis. Mutations in the gene encoding for Cytokeratin 17 lead to depressed protein translation and smaller sized skin keratinocytes, corresponding to decreased Akt/mTOR signaling activity. Cytokeratin 17 may be a useful marker for cervical stem cell identification, squamous cell carcinoma of the larynx, respiratory syncytial virus and transitional cell carcinomas of the human urinary tract.

Conjugate: iFluor™ 594, Ex: 588nm; Em: 604nm.

Immunogen: Synthetic peptide within Human Cytokeratin 17 aa 1-50 / 432.

Positive control: Human skin tissue, MCF-7.

Subcellular location: Cytoplasm.

Database links: SwissProt: Q04695 Human

Recommended Dilutions:

IF-Tissue	1:100
IF-Cell	1:50

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

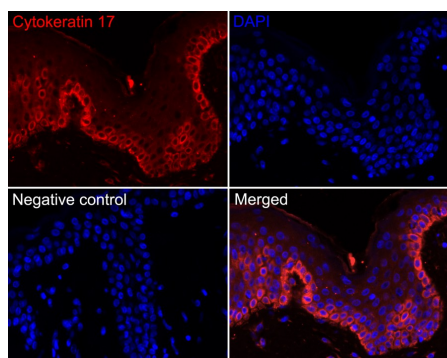


Fig1: Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 17.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. The section was then incubated overnight at +4°C with HA720116F Cytokeratin 17 (iFluor™ 594, red) at 1/100 dilution, washed with PBS. DAPI was used as nuclear counterstain.

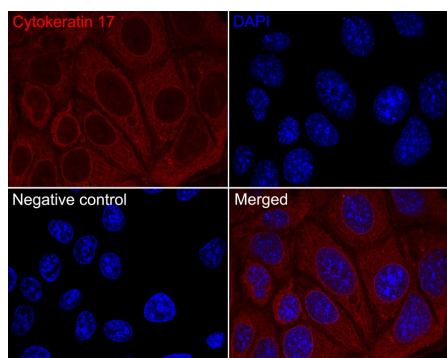


Fig2: Immunocytochemistry analysis of MCF-7 cells labeling Cytokeratin 17.

Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS for 10 minutes, and then blocked with 1% BSA for 30 minutes at room temperature. The cells were then incubated overnight at +4°C with HA720116F at 1/50 dilution Rabbit monoclonal to Cytokeratin 17 (iFluor™ 594)(shown in red). DAPI was used as nuclear counterstain.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Doucet YS. et. al. The touch dome defines an epidermal niche specialized for mechanosensory signaling. *Cell Rep* 3:1759-65 (2013).
2. Johnson EK. et. al. Identification of new dystroglycan complexes in skeletal muscle. *PLoS One* 8:e73224 (2013).

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