

iFluor™ 488 Conjugated Anti-Cytokeratin 17 Antibody [SR45-06]

HA720138F



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™ 488, Ex: 491nm; Em: 516nm.

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

Positive control: Human esophagus tissue, Hela.

Subcellular location: Cytoplasm.

Database links: SwissProt: Q04695 Human | Q9QWL7 Mouse

Recommended Dilutions:

IF-Tissue	1:200
IF-Cell	1:100

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

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Images

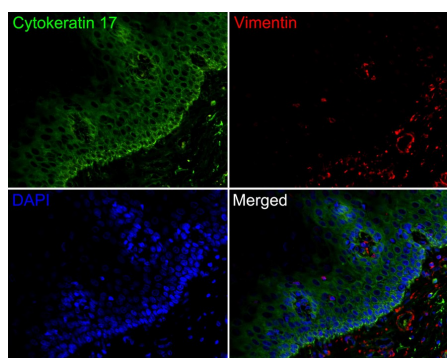


Fig1: Immunofluorescence analysis of paraffin-embedded human esophagus tissue labeling Cytokeratin 17 (HA720138F) and Vimentin (EM0401).

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. And then probed with the primary antibodies Cytokeratin 17 (HA720138F, green) at 1/200 dilution and Vimentin (EM0401, red) at 1/1,000 dilution overnight at 4 °C, washed with PBS.

iFluor™ 594 conjugate-Goat anti-Mouse IgG (HA1126) was used as the secondary antibody at 1/1,000 dilution. DAPI was used as nuclear counterstain.

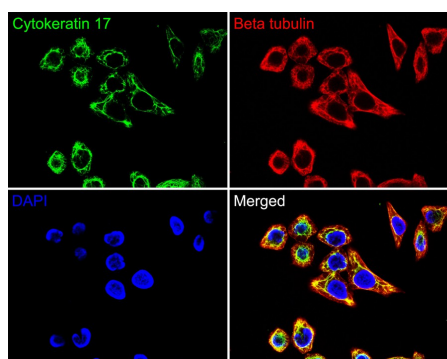


Fig2: Immunocytochemistry analysis of HeLa cells labeling Cytokeratin 17 with Rabbit anti-Cytokeratin 17 antibody (HA720138F) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 1% BSA for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Cytokeratin 17 antibody (HA720138F) at 1/100 dilution in 1% BSA overnight at 4 °C. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/200 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) were used as the secondary antibody at 1/800 dilution.

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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