

# iFluor™ 647 Conjugated Anti-Cytokeratin 10 Antibody [ST05-43] HA720146F



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Rat, Mouse
<b>Applications:</b>	IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 59 kDa
<b>Clone number:</b>	ST05-43

**Description:** Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratins have been found to be useful markers of tissue differentiation which is directly applicable to the characterization of malignant tumors. Cytokeratins 10 and 13 are present in the cytoskeletal region of a subset of squamous cell carcinomas. Cytokeratin 10 is a heterotetramer of two type I and two type II keratins, is generally associated with keratin 1, and is seen in all suprabasal cell layers including stratum corneum.

**Conjugate:** iFluor™ 647, Ex: 656nm; Em: 670nm.

**Immunogen:** Synthetic peptide within Human Cytokeratin 10 aa 541-584 / 584.

**Positive control:** Human skin tissue, rat skin tissue.

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: P13645 Human | Q6IFW6 Rat

**Recommended Dilutions:**

IF-Tissue 1:50

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

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

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

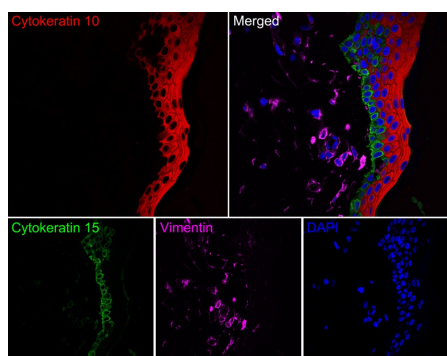
Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

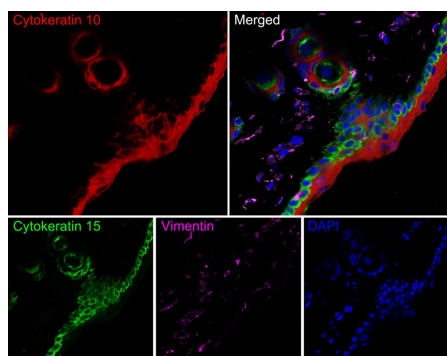
## Images



**Fig1:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 10 (HA720146F), Cytokeratin 15 (HA720136F) 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 10 (HA720146F, red) at 1/50 dilution, Cytokeratin 15 (HA720136F, green) at 1/200 dilution and Vimentin (EM0401, magenta) at 1/1,000 dilution overnight at 4 °C, washed with PBS.

Alexa Fluor® 555 conjugate-Goat anti-Mouse IgG was used as the secondary antibody at 1/1,000 dilution. DAPI was used as nuclear counterstain.



**Fig2:** Immunofluorescence analysis of paraffin-embedded rat skin tissue labeling Cytokeratin 10 (HA720146F), Cytokeratin 15 (HA720136F) 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 10 (HA720146F, red) at 1/50 dilution, Cytokeratin 15 (HA720136F, green) at 1/200 dilution and Vimentin (EM0401, magenta) at 1/1,000 dilution overnight at 4 °C, washed with PBS.

Alexa Fluor® 555 conjugate-Goat anti-Mouse IgG was used as the secondary antibody at 1/1,000 dilution. 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. Tabuchi Y. et al. Development of oral epithelial cell line ROE2 with differentiation potential from transgenic rats harboring temperature-sensitive simian virus40 large T-antigen gene. *Exp Anim* 63:31-44 (2014).
2. Zhu XJ. et al. BMP-FGF signaling axis mediates Wnt-induced epidermal stratification in developing mammalian skin. *PLoS Genet* 10:e1004687 (2014).

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