

## iFluor™ 594 Conjugated Anti-Cytokeratin 10 Antibody [ST05-43]

# HA720119F



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

**Description:** Keratin, type I cytoskeletal 10 also known as cytokekeratin-10 (CK-10) or keratin-10 (K10) is a protein that in humans is encoded by the KRT10 gene. Keratin 10 is a type I keratin. Keratin-10 is a member of the type I (acidic) cytokekeratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermolytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosome 17q21.

**Conjugate:** iFluor™ 594, Amax: 587nm; Emax: 603nm.

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

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

**Subcellular location:** Cytoplasm, secreted.

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

**Recommended Dilutions:**  
IF-Tissue 1:100-1:400

**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.

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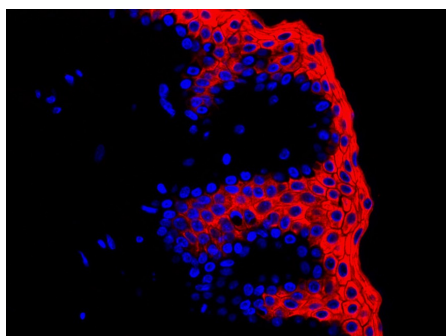
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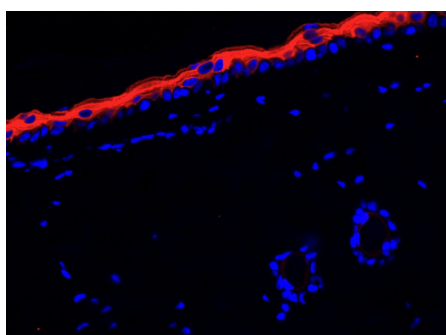
## Images



**Fig1:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 10 (HA720119F).

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 antibody Cytokeratin 10 (HA720119F, red) at 1/200 dilution at +4°C overnight, washed with PBS.

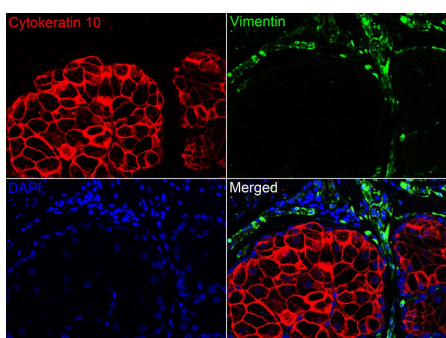
Nudei were counterstained with DAPI (blue).



**Fig2:** Immunofluorescence analysis of paraffin-embedded rat skin tissue labeling Cytokeratin 10 (HA720119F).

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 antibody Cytokeratin 10 (HA720119F, red) at 1/200 dilution at +4°C overnight, washed with PBS.

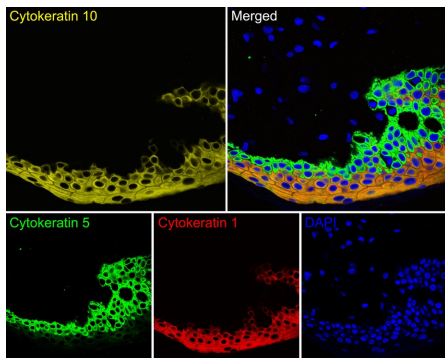
Nudei were counterstained with DAPI (blue).



**Fig3:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 10 (HA720119F) 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 (HA720119F, red) at 1/100 dilution and Vimentin (EM0401, green) at 1/400 dilution at +4°C overnight, washed with PBS.

Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. Nudei were counterstained with DAPI (blue).



**Fig4:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 10 (HA720119F), Cytokeratin 5 (HA720129F) and Cytokeratin 1 (HA720141F).

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 (HA720119F, yellow) at 1/400 dilution, Cytokeratin 5 (HA720129F, green) at 1/100 dilution and Cytokeratin 1 (HA720141F, red) at 1/400 dilution overnight at 4 °C, washed with PBS.

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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