iFluor™ 594 Conjugated Anti-Cytokeratin 15 Antibody [ST04-85]

HA720122F

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IF-Tissue
Molecular Wt:	49 kDa
Clone number:	ST04-85

Description: Cytokeratin 15 (CK15, K15, K1CO, keratin15, type I cytoskeletal 15) is an intermediate filament (IF) type I protein that is responsible for the mechanical integrity of epithelial cells. Keratin family members are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains, and are clustered in a region on chromosome 17q21.2. Cytokeratin 15 is a specific marker of stem cells of the hair-follicle bulge and may be a useful marker for diagnosis between basal cell carcinoma and trichoepithelioma. Trichoblastoma are benign neoplasms of follicular differentiation frequently found in nevus sebaceus. Many morphologic features are shared with nodular basal cell carcinoma, sometimes rendering a diagnosis difficult. Trichoblastoma and BCC show variable expression of Cytokeratin 15 and Cytokeratin 19, and absence of hair keratins.

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

Immunogen: Synthetic peptide within Human Cytokeratin 15 aa 410-455.

Positive control: Human skin tissue, rat skin tissue.

Subcellular location: Intermediate filament, cytosol, extracellular exosome, nucleus.

Database links: SwissProt: P19012 Human | Q61414 Mouse | Q6IFV3 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℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

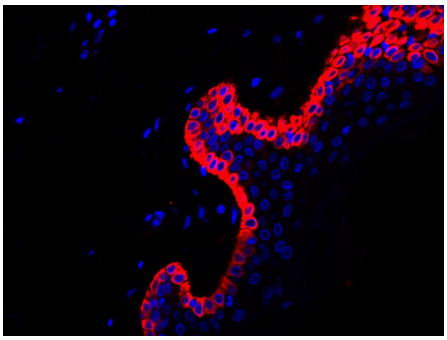

Fig1: Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 15 (HA720122F).

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 15 (HA720122F, red) at 1/200 dilution at +4℃ overnight, washed with PBS.

Nuclei were counterstained with DAPI (blue).

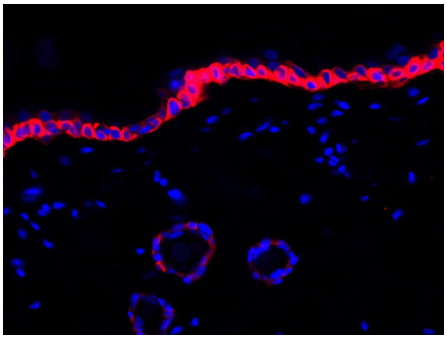

Fig2: Immunofluorescence analysis of paraffin-embedded rat skin tissue labeling Cytokeratin 15 (HA720122F).

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 15 (HA720122F, red) at 1/200 dilution at +4℃ overnight, washed with PBS.

Nuclei were counterstained with DAPI (blue).

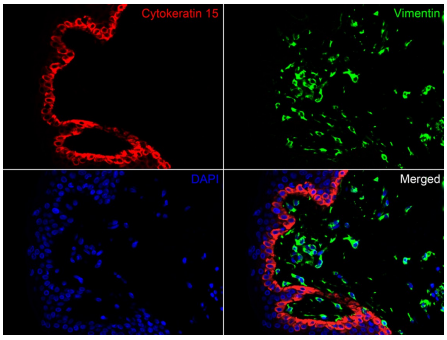

Fig3: Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 15 (HA720122F) and Vimentin (EM0401).

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 15 (HA720122F, red) at 1/100 dilution and Vimentin (EM0401, green) at 1/400 dilution at +4℃ overnight, washed with PBS.

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

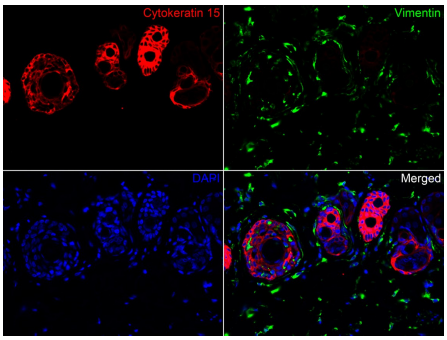

Fig4: Immunofluorescence analysis of paraffin-embedded rat skin tissue labeling Cytokeratin 15 (HA720122F) and Vimentin (EM0401).

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 15 (HA720122F, red) at 1/100 dilution and Vimentin (EM0401, green) at 1/400 dilution at +4℃ overnight, washed with PBS.

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

Background References

1. Pal SK et al. The expression profiles of acidic epithelial keratins in ameloblastoma. Oral Surg Oral Med Oral Pathol Oral Radiol 115:523-31 (2013).
2. Tai G et al. Cytokeratin 15 marks basal epithelia in developing ureters and is upregulated in a subset of urothelial cell carcinomas. PLoS One 8:e81167 (2013).