

## iFluor™ 647 Conjugated Anti-Cytokeratin 1 Antibody [SN72-08]

### HA720141F



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 66 kDa
<b>Clone number:</b>	SN72-08

**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 constitute up to 85% of a mature keratinocytes in the vertebrate epidermis. Cytokeratins play a critical role in differentiation and tissue specialization, and they function to maintain the overall structural integrity of epithelial cells. The alpha-helical coiled-coil dimers associate laterally end-to-end to form 10-nm diameter filaments. Cytokeratins are useful markers of tissue differentiation, and they aid in the characterization of malignant tumors. Cytokeratin 1 is highly expressed in several malignancies including epithelioid hemangioendotheliomas, angiosarcomas, schwannomas, epithelioid sarcomas and synodal sarcomas. The gene encoding human Cytokeratin 1 maps to chromosome 12q13.13. Mutations in the gene encoding human Cytokeratin 1 lead to abnormal filament associations and epidermolytic hyperkeratosis.

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

**Immunogen:** Synthetic peptide within mouse Cytokeratin 1 aa 586-637.

**Positive control:** Human skin tissue.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: P04264 Human | P04104 Mouse | Q6IMF3 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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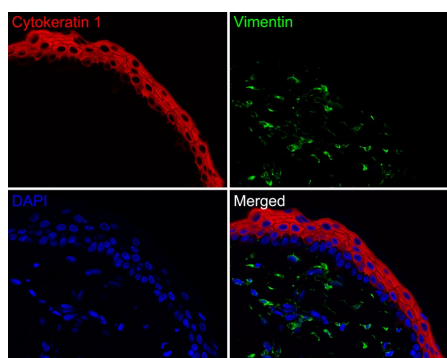
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Service mail:support@huabio.cn

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## Images



**Fig1:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 1 (HA720141F) 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 1 (HA720141F, red) at 1/100 dilution and Vimentin (EM0401, green) at 1/1,000 dilution overnight at 4 °C, washed with PBS.

iFluor™ 488 conjugate-Goat anti-Mouse IgG (HA1125) was used as the secondary antibody at 1/1,000 dilution. DAPI was used as nuclear counterstain.



**Fig2:** Immunofluorescence analysis of paraffin-embedded human skin tissue labeling Cytokeratin 1 (HA720141F), Cytokeratin 5 (HA720129F) and 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 antibodies Cytokeratin 1 (HA720141F, red) at 1/400 dilution, Cytokeratin 5 (HA720129F, green) at 1/100 dilution and Cytokeratin 10 (HA720119F, yellow) 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. Zhu, H. et al. 2016. MiR-217 is down-regulated in psoriasis and promotes keratinocyte differentiation via targeting GRHL2. *Biochemical and biophysical research communications*. 471: 169-76.
2. Li, G. et al. 2015. Transcription Factor PAX6 (Paired Box 6) Controls Limbal Stem Cell Lineage in Development and Disease. *The Journal of biological chemistry*. 290: 20448-54.

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