

## iFluor™ 647 Conjugated Anti-Cytokeratin 8 Antibody [SU0338]

### HA720145F



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	IF-Cell, IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 54 kDa
<b>Clone number:</b>	SU0338

**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. They have been found to be useful markers of tissue differentiation, which is directly applicable to the characterization of malignant tumors. Cytokeratin 8 expression is seen in epithelium and epithelium-derived tumors. Cytokeratin 8 is often used together with keratin 18 and keratin 19 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.

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

**Immunogen:** Synthetic peptide within Human Cytokeratin 8 aa 321-370 / 483.

**Positive control:** SK-Br-3, human breast tissue.

**Subcellular location:** Nucleoplasm, Nucleus matrix, Cytoplasm.

**Database links:** SwissProt: P05787 Human | P11679 Mouse

**Recommended Dilutions:**

IF-Cell 1:100

IF-Tissue 1:200

**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.

Hangzhou Huaan Biotechnology Co., Ltd.

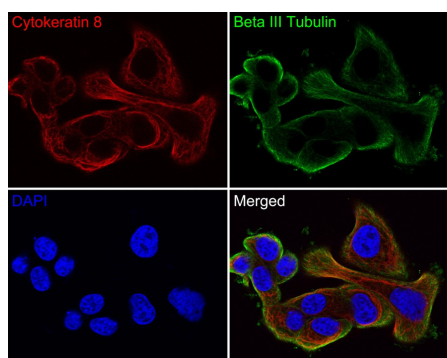
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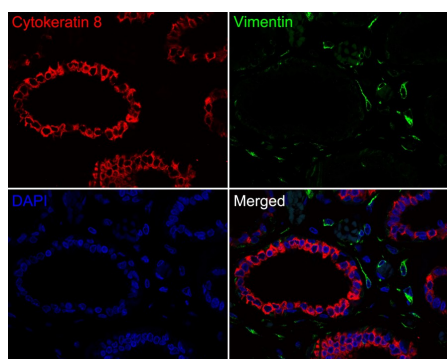
## Images



**Fig1:** Immunocytochemistry analysis of SK-Br-3 cells labeling Cytokeratin 8 with Rabbit anti-Cytokeratin 8 antibody (HA720145F) 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 2% normal goat serum for 1 hour at 37 °C. Cells were then incubated with Rabbit anti-Cytokeratin 8 antibody (HA720145F, red) at 1/100 dilution in 2% normal goat serum overnight at 4 °C. Nuclear DNA was labeled in blue with DAPI.

Beta III Tubulin (M0805-8, green) was stained at 1/200 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/800 dilution.



**Fig2:** Immunofluorescence analysis of paraffin-embedded human breast tissue labeling Cytokeratin 8 (HA720145F) 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 8 (HA720145F, red) at 1/200 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.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Ruiz A. et al. Effect of hydroxychloroquine and characterization of autophagy in a mouse model of endometriosis. *Cell Death Dis* 7:e2059 (2016).
2. Xiao, L. et al. Three-dimensional epithelial and mesenchymal cell co-cultures form early tooth epithelium invagination-like structures: expression patterns of relevant molecules. *J. Cell. Biochem.* 113: 1875-1885(2012).

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