

iFluor™ 594 Conjugated Anti-Cytokeratin 19 Antibody [SA30-06]

HA720115F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	IF-Cell
Molecular Wt:	Predicted band size: 44 kDa
Clone number:	SA30-06

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 and have been found to be useful markers of tissue differentiation, which is directly applicable to the characterization of malignant tumors. For example, many types of cancer cells express Cytokeratin 19 (CK19), an epithelial cytoskeletal protein within the suprabasal squamous epithelium. Cytokeratin 19 is a specific marker of moderate to severe dysplasia and carcinoma in situ in oral cavity squamous epithelium, and measurement of Cytokeratin 19 may be a useful marker in diagnosing hepatoma. Cytokeratin 19 fragment levels in serum have been documented as a marker for lung cancer. Clinical investigations have suggested that serum CYFRA 21-1, a fragment of Cytokeratin 19, may be among the most useful tumor markers.

Conjugate: iFluor™ 594, Ex: 588nm; Em: 604nm.

Immunogen: Synthetic peptide within Human Cytokeratin 19 aa 348-400.

Positive control: SK-Br-3.

Subcellular location: Cytoskeleton.

Database links: SwissProt: P08727 Human

Recommended Dilutions:

IF-Cell 1:50

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 Huan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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www.huabio.cn

Images

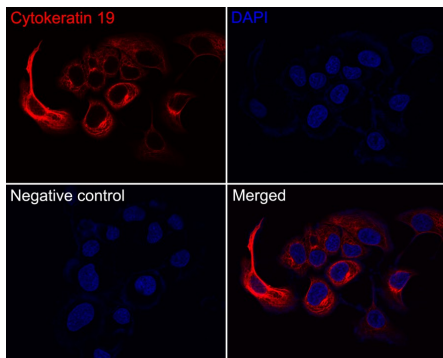


Fig1: Immunocytochemistry analysis of SK-Br-3 cells labeling Cytokeratin 19.

Cells were fixed in 4% paraformaldehyde and permeabilized with 0.05% Triton X-100 in PBS for 10 minutes, and then blocked with 2% negative goat serum for 15 minutes at room temperature. The cells were then incubated overnight at +4°C with HA720115F at 1/50 dilution Rabbit monoclonal to Cytokeratin 19 (iFluor™ 594) (shown in red). DAPI was used as nuclear counterstain.

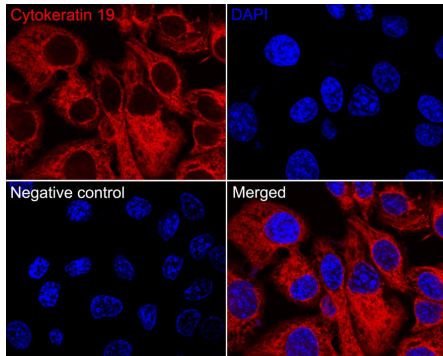


Fig2: Immunocytochemistry analysis of SK-Br-3 cells labeling Cytokeratin 19.

Cells were fixed in 100% methanol and permeabilized with 0.1% Triton X-100 in PBS for 10 minutes, and then blocked with 1% BSA for 30 minutes at room temperature. The cells were then incubated overnight at +4°C with HA720115F at 1/50 dilution Rabbit monoclonal to Cytokeratin 19 (iFluor™ 594)(shown in red). 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. Guye P. et. al. Genetically engineering self-organization of human pluripotent stem cells into a liver bud-like tissue using Gata6. Nat Commun 7:10243 (2016).
2. Cui M. et. al. PTEN is a potent suppressor of small cell lung cancer. Mol Cancer Res 12:654-9 (2014).

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