

iFluor™ 488 Conjugated Anti-Cytokeratin 20 Antibody [SA35-03]

HA720189F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IF-Cell, IF-Tissue
Molecular Wt:	Predicted band size: 48 kDa
Clone number:	SA35-03

Description: Keratin 20, often abbreviated CK20, is a protein that in humans is encoded by the KRT20 gene. Keratin 20 is a type I cytokeratin. It is a major cellular protein of mature enterocytes and goblet cells and is specifically found in the gastric and intestinal mucosa. In immunohistochemistry, antibodies to CK20 can be used to identify a range of adenocarcinoma arising from epithelia that normally contain the CK20 protein. For example, the protein is commonly found in colorectal cancer, transitional cell carcinomas and in Merkel cell carcinoma, but is absent in lung cancer, prostate cancer, and non-mucinous ovarian cancer. It is often used in combination with antibodies to CK7 to distinguish different types of glandular tumour.

Conjugate: iFluor™ 488, Ex: 491nm; Em: 516nm.

Immunogen: Synthetic peptide within Human Cytokeratin 20 aa 375-424 / 424.

Positive control: HT-29, human small intestine tissue.

Subcellular location: Cytoplasm

Database links: SwissProt: P35900 Human

Recommended Dilutions:

IF-Cell	1:500
IF-Tissue	1:200

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

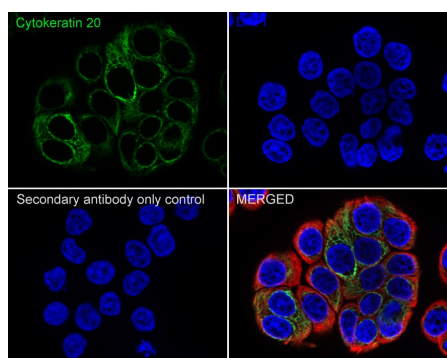


Fig1: Immunocytochemistry analysis of HT-29 cells labeling Cytokeratin 20 with Rabbit anti-Cytokeratin 20 antibody (HA720189F) at 1/500 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Cytokeratin 20 antibody (HA720189F) at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

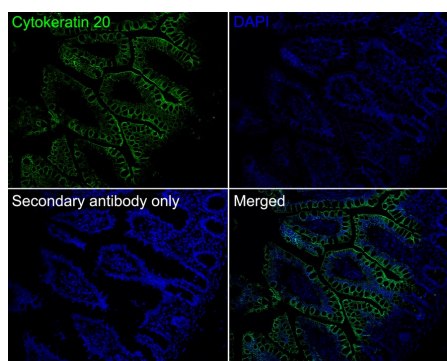


Fig2: Immunofluorescence analysis of paraffin-embedded human small intestine tissue labeling Cytokeratin 20 with Rabbit anti-Cytokeratin 20 antibody (HA720189F) at 1/200 dilution.

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 (HA720189F, green) at 1/200 dilution overnight at 4 °C, washed with PBS. Nuclei were counterstained with DAPI (blue).

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

Background References

1. Strand DW et al. Deficiency in metabolic regulators PPAR and PTEN cooperates to drive keratinizing squamous metaplasia in novel models of human tissue regeneration. *Am J Pathol* 182:449-59 (2013).
2. Volkmer JP et al. Three differentiation states risk-stratify bladder cancer into distinct subtypes. *Proc Natl Acad Sci U S A* 109:2078-83 (2012).

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