

# Anti-Cytokeratin 8 Antibody [A1-B11] - Cytoskeleton Marker

## M1603-2



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	53 kDa
<b>Clone number:</b>	A1-B11

**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. The Cytokeratin 8 and 18 pair are normally expressed in simple epithelia, but not in stratified epithelial cells. Research indicates that squamous cell carcinomas derived from stratified epithelia show abnormal expression of Cytokeratin 8 and 18, although it is not known whether these proteins contribute to the malignant phenotype of the cells. Expression of Cytokeratin 8 and 18 in oral squamous cell carcinomas is an independent prognostic marker that indicates a poor prognosis. Cytokeratin 8 expression correlates with malignancy in leukoplakia and carcinomas of the head and neck; it is expressed in all non-small-cell lung cancers. Cytokeratin 8 has been shown to possess extracellular epitopes on tumor cells, which may represent valuable targets for therapy.

**Immunogen:** Synthetic peptide within C-terminal human Cytokeratin 8 aa 441-483.  
**Positive control:** MCF-7, PANC-1, A549, PC12, human breast carcinoma tissue, human colon cancer tissue, mouse small intestine tissue, Hela.

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

**Database links:** SwissProt: P05787 Human | P11679 Mouse | Q10758 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000-1:2,000
<b>IF-Cell</b>	1:100-1:500
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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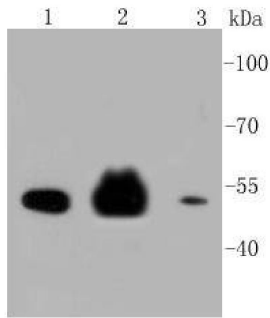
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## Images

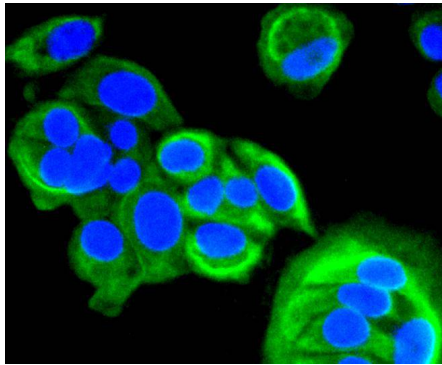


**Fig1:** Western blot analysis on different cell lysates using anti-Cytokeratin 8 Mouse mAb. **Positive control:**

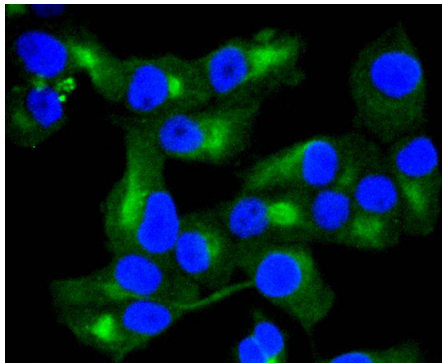
Lane 1: A549

Lane 2: MCF-7

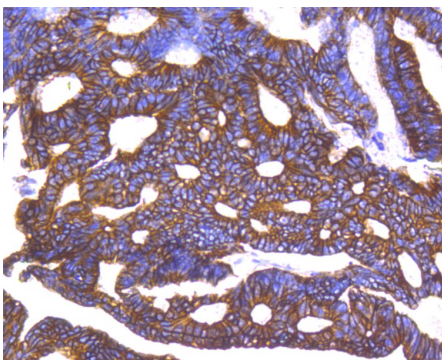
Lane 3: PC12



**Fig2:** Immunocytochemical staining of MCF-7 cells using anti-Cytokeratin 8 Mouse mAb.



**Fig3:** Immunocytochemical staining of PANC-1 cells using anti-Cytokeratin 8 Mouse mAb.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cytokeratin 8 Mouse mAb.

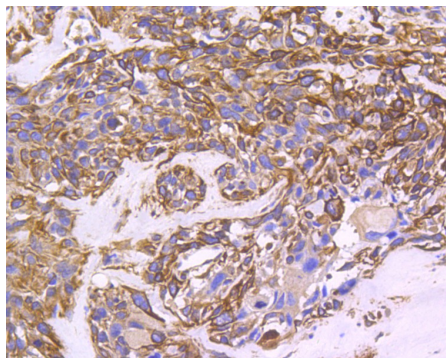
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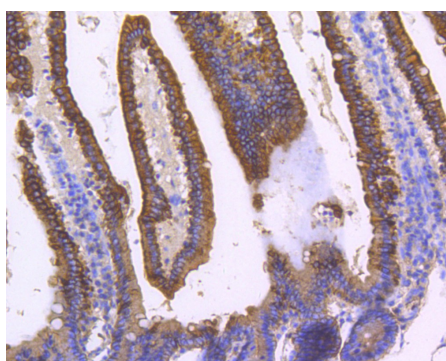
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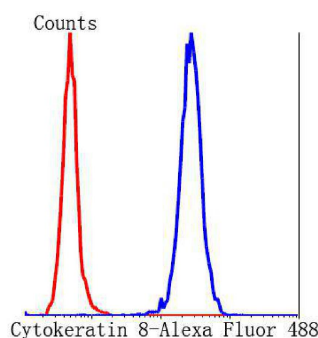
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**Fig5:** Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using anti-Cytokeratin 8 Mouse mAb.



**Fig6:** Immunohistochemical analysis of paraffin- embedded mouse small intestine tissue using anti-Cytokeratin 8 Mouse mAb.



**Fig7:** Flow cytometric analysis of HeLa cells with FGFR2 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated Goat anti mouse IgG was used as the secondary antibody.

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

### Background References

1. Xu D et al. Fialuridine induces acute liver failure in chimeric TK-NOG mice: a model for detecting hepatic drug toxicity prior to human testing. *PLoS Med* 11:e1001628 (2014).
2. Berger PL et al. Transient Induction of ING4 by Myc Drives Prostate Epithelial Cell Differentiation and Its Disruption Drives Prostate Tumorigenesis. *Cancer Res* 74:3357-68 (2014).

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