

# Anti-Cytokeratin 8 Antibody

## ER1802-43



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 54 kDa

**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.

<b>Immunogen:</b>	Synthetic peptide within N-terminal human Cytokeratin 8.
<b>Positive control:</b>	Human small intestine tissue lysate, A431, A549, LOVO, MCF-7, rat epididymis tissue, human lung cancer tissue, human prostate tissue, mouse liver tissue.
<b>Subcellular location:</b>	Cytoplasm. Nucleus.
<b>Database links:</b>	SwissProt: P05787 Human   P11679 Mouse   Q10758 Rat
<b>Recommended Dilutions:</b>	
<b>WB</b>	1:500-1:1,000
<b>IF-Cell</b>	1:50-1:200
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100
<b>Storage Buffer:</b>	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Storage Instruction:</b>	Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.
<b>Purity:</b>	Immunogen affinity purified.

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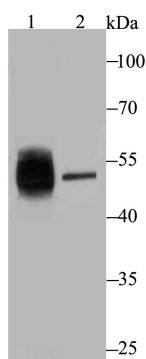
Orders:0086-571-88062880

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## Images

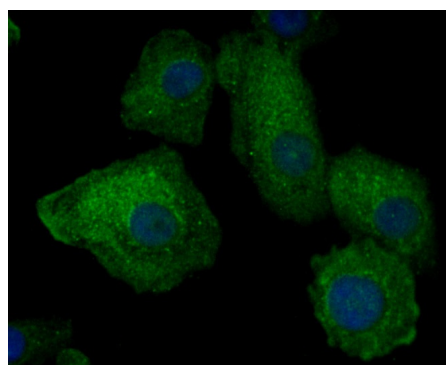


**Fig1:** Western blot analysis of Cytokeratin 8 on different lysates using anti-Cytokeratin 8 antibody at 1/500 dilution.

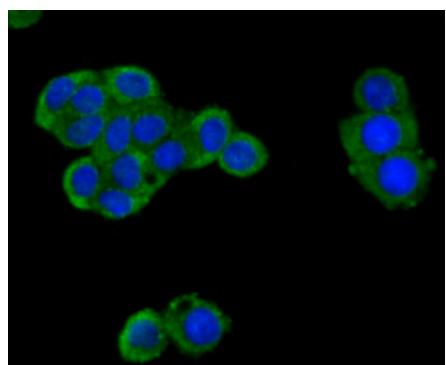
**Positive control:**

Lane 1: Human small intestine

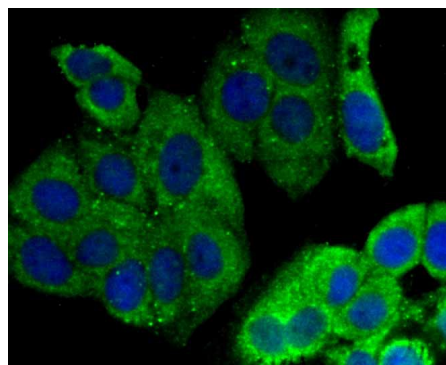
Lane 2: A431



**Fig2:** ICC staining Cytokeratin 8 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** ICC staining Cytokeratin 8 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** ICC staining Cytokeratin 8 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

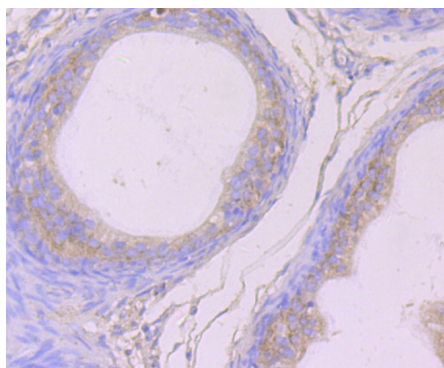
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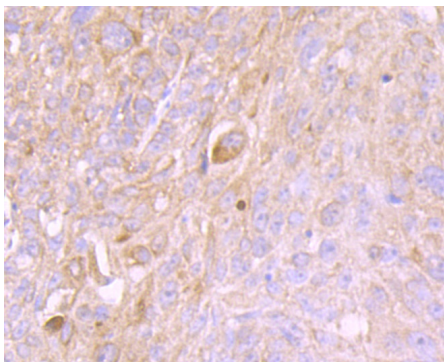
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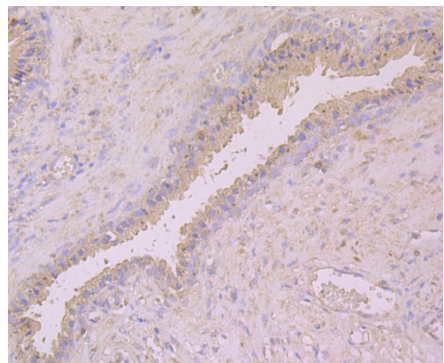
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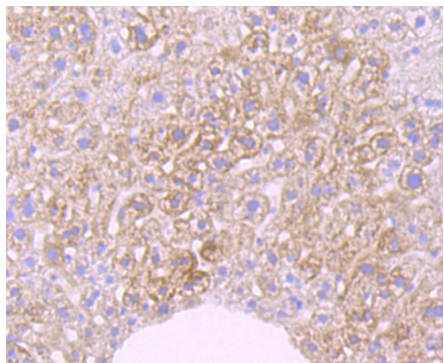
**Fig5:** Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-Cytokeratin 8 antibody. Counter stained with hematoxylin.



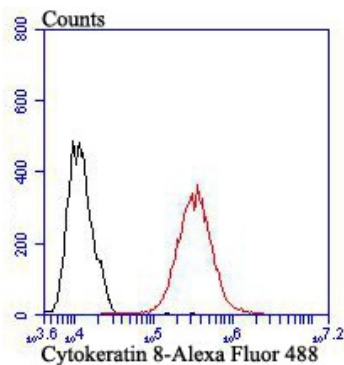
**Fig6:** Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cytokeratin 8 antibody. Counter stained with hematoxylin.



**Fig7:** Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-Cytokeratin 8 antibody. Counter stained with hematoxylin.



**Fig8:** Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Cytokeratin 8 antibody. Counter stained with hematoxylin.



**Fig9:** Flow cytometric analysis of MCF-7 cells with Cytokeratin 8 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit 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. Stone M R et al. Specific interaction of the actin-binding domain of dystrophin with intermediate filaments containing keratin 19. *Mol Biol Cell* 16:4280-4293 (2005).
2. Barrett A W et al. An immunohistological study of cytokeratin 20 in human and mammalian oral epithelium. *Arch Oral Biol* 45:879-887 (2000).

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