

## Product Datasheet

### Cytokeratin 18 Antibody (orb749637)

<b>Catalog Number</b>	orb749637
<b>Category</b>	Antibodies
<b>Description</b>	<p>This mAb reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid. Cytokeratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins, exists in combination with cytokeratin 8. It is reported that tissues from gastrointestinal tract are positive for both cytokeratin 8 and 18 but do not contain cytokeratin 14. Tissues from gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for cytokeratin 18.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Rat
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Recombinant full-length human KRT18 protein was used as the immunogen for the Cytokeratin 18 antibody.
<b>UniProt ID</b>	<b>P05783</b>
<b>Tested applications</b>	FACS, IF, IHC-P, WB

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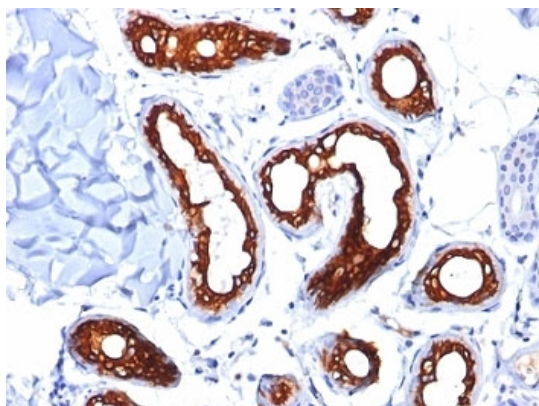
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<b>Dilution range</b>	Western blot: 1-2ug/ml,Flow cytometry: 1-2ug/10 <sup>6</sup> cells,Immunofluorescence: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the Cytokeratin 18 antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	KRT18/834
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human skin stained with Cytokeratin 18 antibody (KRT18/834).

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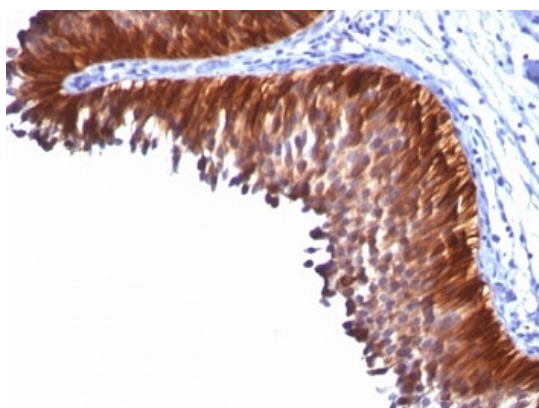
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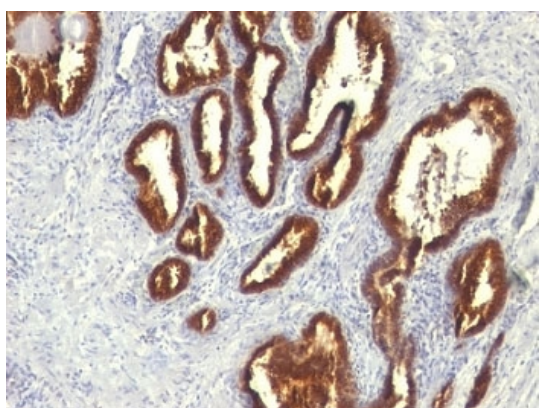
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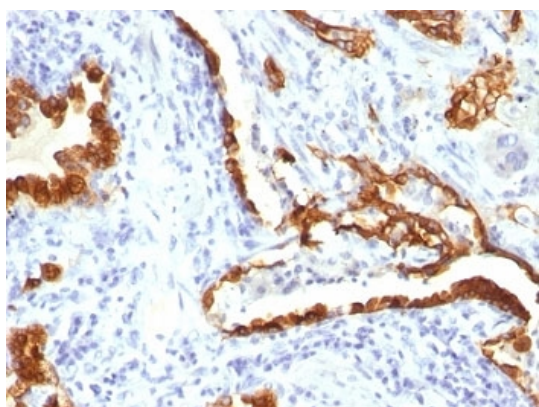
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IHC: Formalin-fixed, paraffin-embedded human bladder carcinoma stained with Cytokeratin 18 antibody (KRT18/834).



IHC: Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Cytokeratin 18 antibody (KRT18/834).



IHC: Formalin-fixed, paraffin-embedded human lung carcinoma stained with Cytokeratin 18 antibody (KRT18/834).

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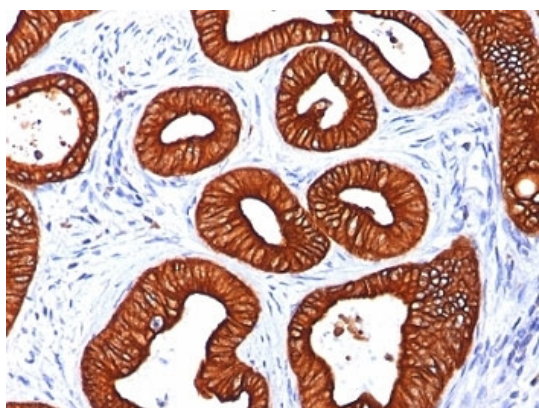
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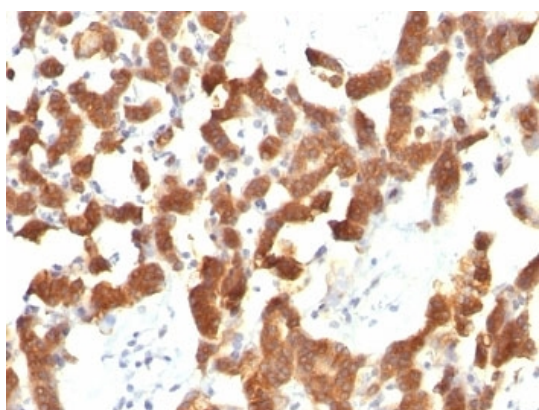
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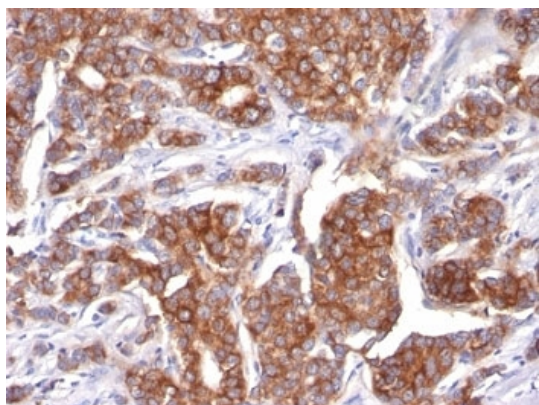
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IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Cytokeratin 18 antibody (KRT18/834).



IHC: Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Cytokeratin 18 antibody (KRT18/834).



IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with Cytokeratin 18 antibody (KRT18/834).

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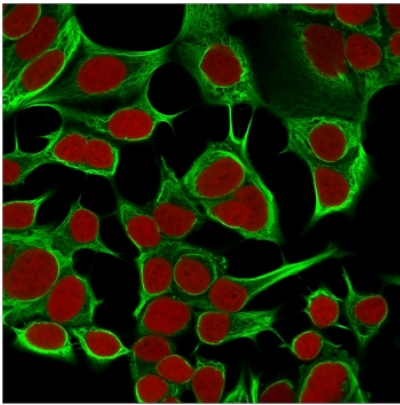
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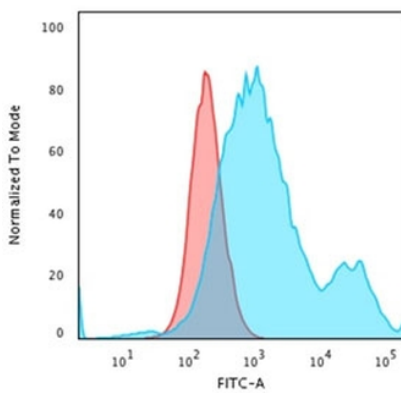
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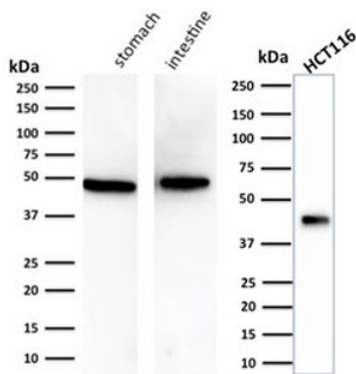
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Immunofluorescent staining of permeabilized human MCF7 cells with Cytokeratin 18 antibody (clone KRT18/834, green) and Reddot nuclear stain (red).



Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 18 antibody (clone KRT18/834); Red = isotype control, Blue = Cytokeratin 18 antibody.



Western blot testing of human stomach, intestine and HCT-116 cell lysate with Cytokeratin 18 antibody (clone KRT18/834). Predicted molecular weight ~48 kDa.

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