

Product Datasheet

KRT7 Antibody / Cytokeratin 7 (orb749625)

Description	It recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This mAb is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs. Cytokeratin 7 is a basic cytokeratin, which is found in most glandular and transitional epithelia but not in the stratified squamous epithelia. Keratin 7 is expressed in the epithelial cells of ovary, lung, and breast but not of colon, prostate, or gastrointestinal tract. This mAb is highly useful in distinguishing ovarian carcinomas (keratin 7+) from colon carcinomas (keratin 7-).
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	Recombinant full-length human KRT7 protein was used as the immunogen for the Cytokeratin 7 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Store the Cytokeratin 7 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
Note	For research use only
Application notes	Optimal dilution of the Cytokeratin 7 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 minutes2. 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.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

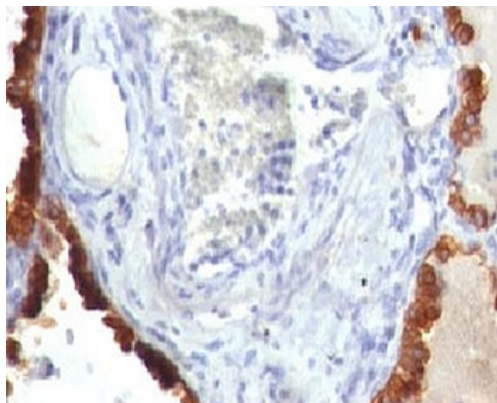
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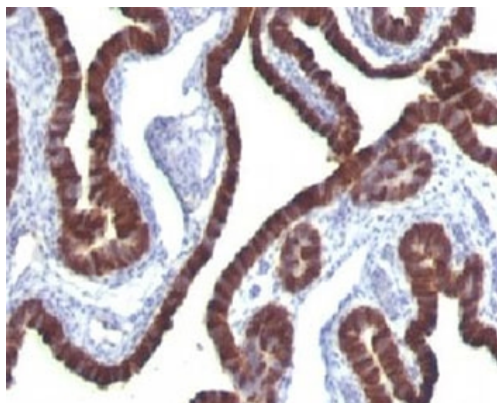
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Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	KRT7/760
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P08729
Hazard Information	This Cytokeratin 7 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells,Immunofluorescence: 1-2ug/ml,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human lung carcinoma stained with Cytokeratin 7 antibody (clone KRT7/760).



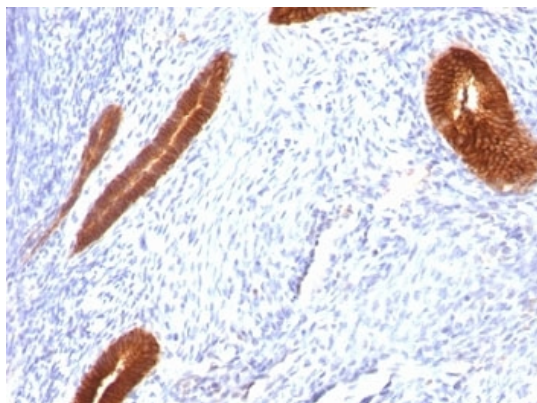
IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Cytokeratin 7 antibody (clone KRT7/760).

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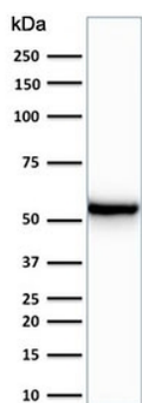
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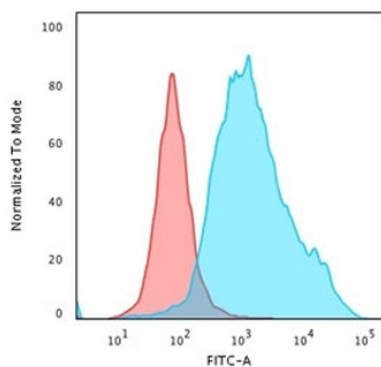
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IHC: Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with Cytokeratin 7 antibody (clone KRT7/760).



Western blot testing of human HeLa cell lysate with Cytokeratin 7 antibody (clone KRT7/760). Predicted molecular weight ~51 kDa.



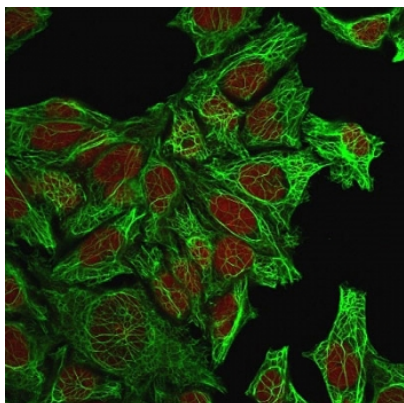
Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 7 antibody (clone KRT7/760); Red = isotype control, Blue = recombinant Cytokeratin 7 antibody.

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Immunofluorescent staining of methanol-fixed human HeLa cells with Cytokeratin 7 antibody (clone KRT7/760, green) and Reddot nuclear stain (red).

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