

Product Datasheet

KRT7 Antibody / Cytokeratin 7 (orb749623)

Catalog Number	orb749623
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	A semi-purified cytokeratin preparation was used as the immunogen for the Keratin 7 antibody.
Storage	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.
Note	For research use only
Application notes	Optimal dilution of the Keratin 7 antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, 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
Isotype	Mouse IgG1, kappa

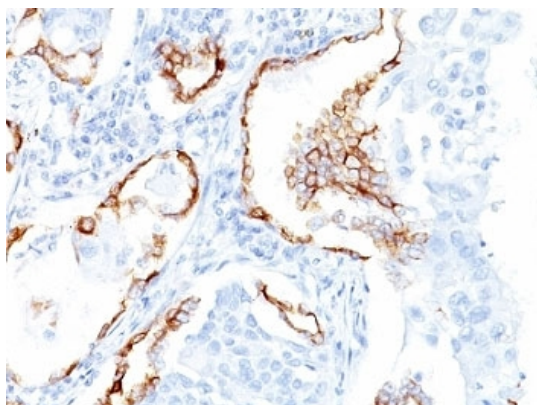
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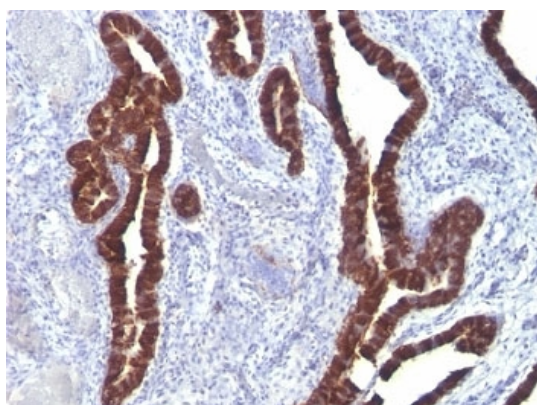
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Clonality	Monoclonal
Clone Number	K72.7
Antibody Type	Primary Antibody
Uniprot ID	P08729
Hazard Information	This Keratin 7 antibody is available for research use only.
Dilution Range	Flow cytometry: 0.5-1ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 0.5-2ug/ml, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human lung SCC stained with Keratin 7 antibody (clone K72.7).



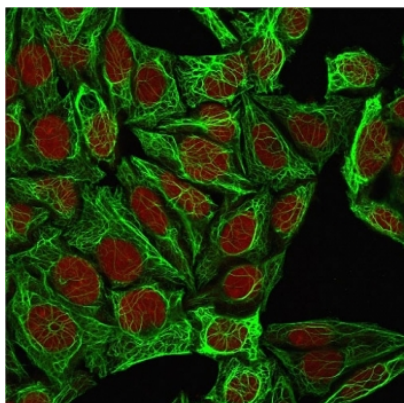
IHC: Formalin-fixed, paraffin-embedded ovarian carcinoma stained with Keratin 7 antibody (clone K72.7).

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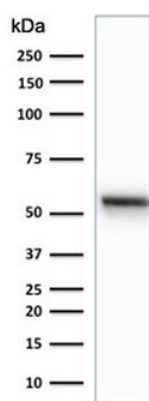
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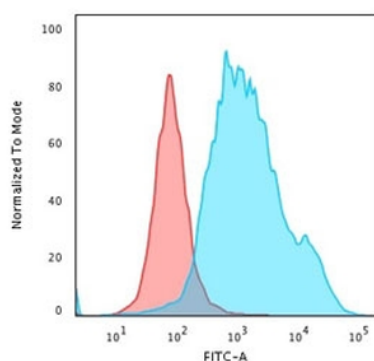
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Immunofluorescent staining of methanol-fixed human HeLa cells with Cytokeratin 7 antibody (green, clone K72.7) and Reddot nuclear stain (red).



Western blot testing of human HeLa cell lysate with Cytokeratin 7 antibody (clone K72.7).



Flow cytometry testing of PFA-fixed human HeLa cells with Cytokeratin 7 antibody (clone K72.7); Red = isotype control, Blue = recombinant Cytokeratin 7 antibody.

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