

## Product Datasheet

# Recombinant Cytokeratin 7 Antibody / Rabbit Monoclonal (orb2642086)

<b>Catalog Number</b>	orb2642086
<b>Category</b>	Antibodies
<b>Description</b>	<p>Cytokeratin-7 (CK7) is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. CK7 is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. It is found in simple glandular epithelia, and in transitional epithelium. Epithelial cells of the lung and breast both contain CK7, but some other glandular epithelia, such as those of the colon and prostate, do not. Because the protein is found in both healthy and neoplastic cells, antibodies to CK7 can be used in immunohistochemistry to distinguish ovarian and transitional cell carcinomas from colonic and prostate cancers, respectively. It is commonly used together with CK20 when making such diagnoses. [Wiki]</p>
<b>Clonality</b>	Recombinant
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	Rabbit IgG, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein A affinity chromatography
<b>Immunogen</b>	Full-length human CK7 protein was used as the immunogen for the recombinant Cytokeratin 7 antibody.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

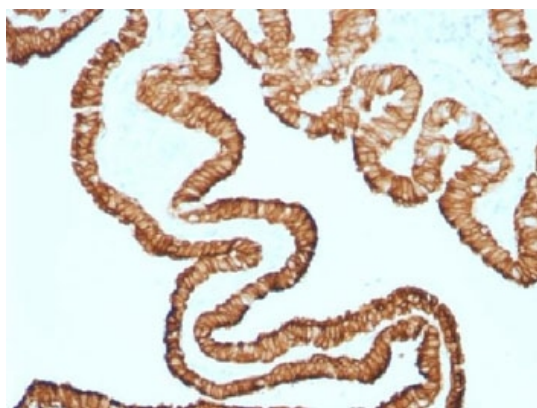
**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

<b>UniProt ID</b>	<b>P08729</b>
<b>Tested applications</b>	FACS, IHC-P, WB
<b>Dilution range</b>	Flow cytometry: 0.5-1ug/10 <sup>6</sup> cells, Western blot: 0.5-2ug/ml, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the recombinant Cytokeratin 7 antibody should be determined by the researcher.1. 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>	KRT7/1499R
<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 testing of FFPE human oviduct with recombinant Cytokeratin 7 antibody (clone KRT7/1499R). Required HIER: steam sections in pH9 10 mM Tris with 1 mM EDTA for 10-20 min.

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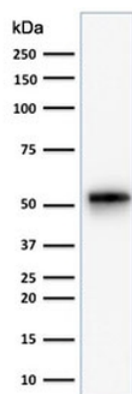
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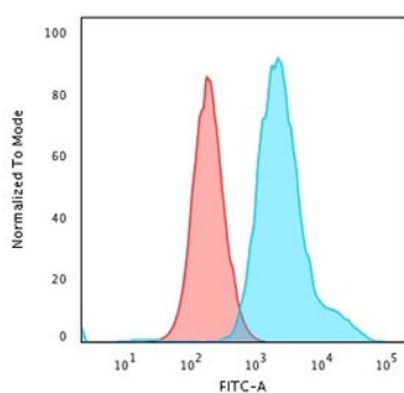
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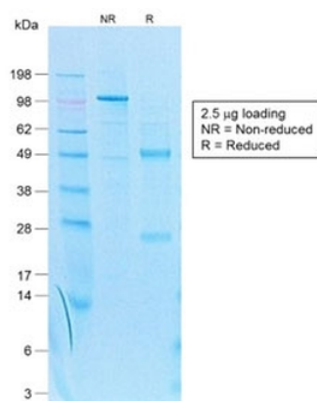
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Western blot testing of human HeLa cell lysate with recombinant Cytokeratin 7 antibody (clone KRT7/1499R). Predicted molecular weight ~51 kDa.



Flow cytometry testing of PFA-fixed human HeLa cells with recombinant Cytokeratin 7 antibody (clone KRT7/1499R); Red = isotype control, Blue = recombinant Cytokeratin 7 antibody.



SDS-PAGE analysis of purified, BSA-free recombinant Cytokeratin 7 antibody (clone KRT7/1499R) as confirmation of integrity and purity.

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