

## Product Datasheet

### Cytokeratin 14 Antibody / KRT14 (orb2643491)

<b>Catalog Number</b>	orb2643491
<b>Category</b>	Antibodies
<b>Description</b>	<p>Cytokeratin 14 (CK14) belongs to the type I (or A or acidic) subfamily of low molecular weight keratins and exists in combination with keratin 5 (type II or B or basic). CK14 is found in basal cells of squamous epithelia, some glandular epithelia, myoepithelium, and mesothelial cells. Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas. Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for differentiation of benign prostate from prostate carcinoma. Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse, Rat
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	A recombinant human partial protein (amino acids 351-472) was used as the immunogen for this Cytokeratin 14 antibody.
<b>UniProt ID</b>	<b>P02533</b>

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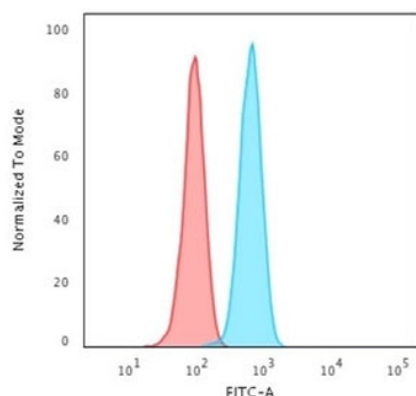
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<b>Tested applications</b>	FACS, IHC-P
<b>Dilution range</b>	Flow cytometry: 1-2ug/million cells in 0.1ml, Immunohistochemistry (FFPE): 1-2ug/ml
<b>Application notes</b>	Optimal dilution of the Cytokeratin 14 antibody should be determined by the researcher.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	KRT14/2375
<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.



Flow cytometry testing of permeabilized human HeLa cells with Cytokeratin 14 antibody (clone KRT14/2375); Red=isotype control, Blue= Cytokeratin 14 antibody.

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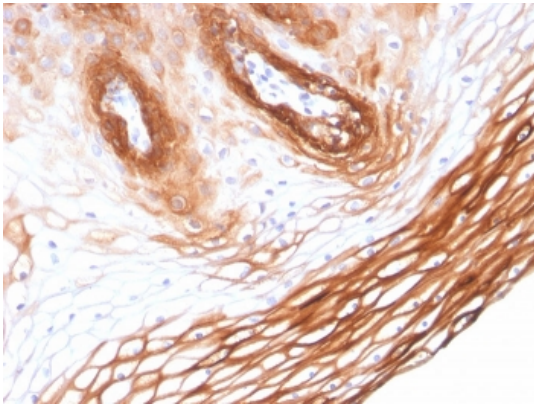
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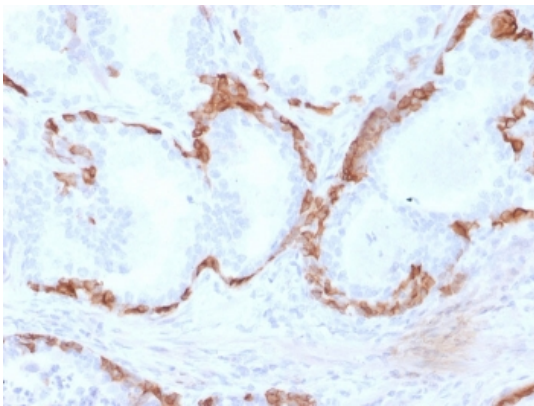
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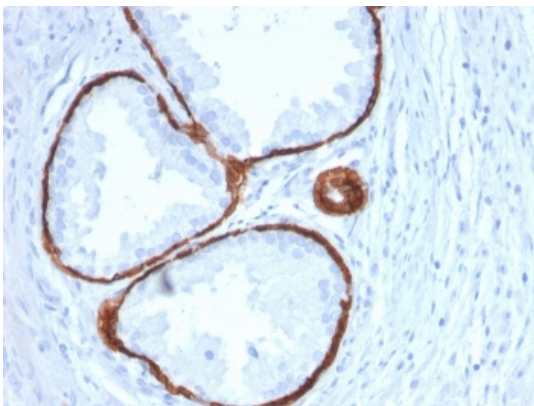
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IHC staining of FFPE human skin with Cytokeratin 14 antibody (clone KRT14/2375). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate carcinoma with Cytokeratin 14 antibody (clone KRT14/2375). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate carcinoma with Cytokeratin 14 antibody (clone KRT14/2375). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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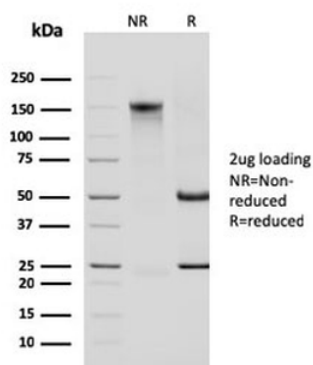
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SDS-PAGE analysis of purified, BSA-free Cytokeratin 14 antibody (clone KRT14/2375) as confirmation of integrity and purity.

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