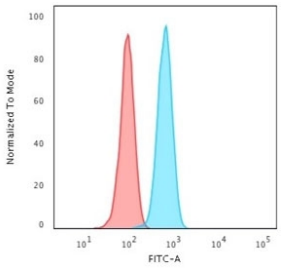
Cytokeratin 14 Antibody / KRT14 [clone KRT14/2375] (V7917)

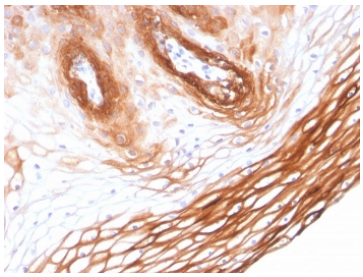
Catalog No.	Formulation	Size
V7917-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7917-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7917SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

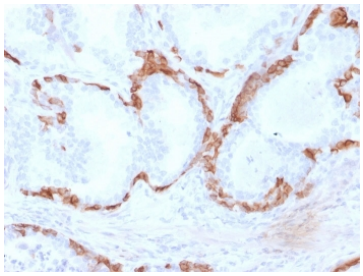
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	KRT14/2375
Purity	Protein G affinity chromatography
UniProt	P02533
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells in 0.1ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Cytokeratin 14 antibody is available for research use only.



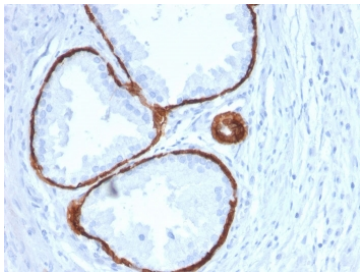
Flow cytometry testing of permeabilized human HeLa cells with Cytokeratin 14 antibody (clone KRT14/2375); Red=isotype control, Blue= Cytokeratin 14 antibody.



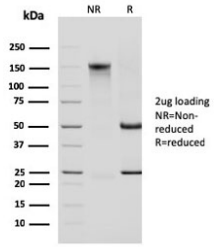
IHC staining of FFPE human skin with Cytokeratin 14 antibody (clone KRT14/2375). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate carcinoma with Cytokeratin 14 antibody (clone KRT14/2375). HIER: boil tissue sections in pH 9 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 pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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

Description

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.

Application Notes

Optimal dilution of the Cytokeratin 14 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 351-472) was used as the immunogen for this Cytokeratin 14 antibody.

Storage

Store the Cytokeratin 14 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).