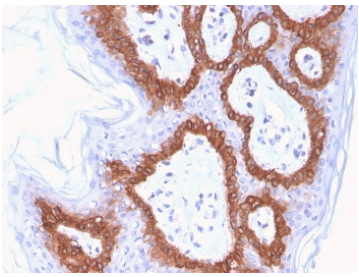
Cytokeratin 14 Antibody [clone LL002] (V2175BTN)

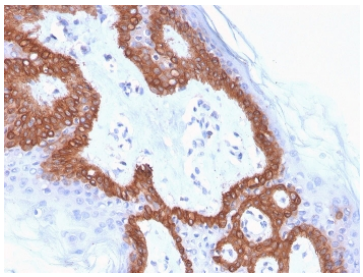
Catalog No.	Formulation	Size
V2175BTN	0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	500 ul

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse and Rat
Format	Biotin Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG3, kappa
Clone Name	LL002
Purity	Protein G affinity chromatography
UniProt	P02533
Localization	Cytoplasmic
Applications	Flow Cytometry : 2-4ug/million cells Immunofluorescence : 2-4ug/ml Immunohistochemistry (FFPE) : 2-4ug/ml for 30 minutes at RT Western Blot : 2-4ug/ml
Limitations	This Cytokeratin 14 antibody is available for research use only.



IHC staining of FFPE human skin with Cytokeratin 14 antibody (clone LL002). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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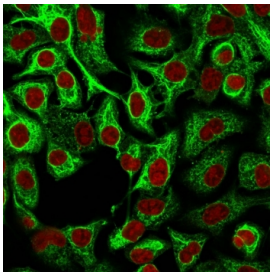
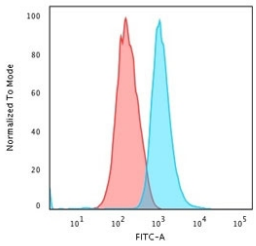


Immunofluorescent staining of human A549 cells with unlabeled Cytokeratin 14 antibody (clone LL002, green) and Reddot nuclear stain (red).



Flow cytometry staining of methanol-fixed human HeLa cells with unlabeled Cytokeratin 14 antibody; Red=isotype control, Blue= Cytokeratin 14 antibody.

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 synthetic peptide of 15 amino acid from the C-terminus of the human protein was used as the immunogen for the Cytokeratin 14 antibody.

Storage

Store the Cytokeratin 14 antibody at 2-8oC (up to one month) or aliquot and store at -20oC (longer term).