Cytokeratin 14 (KRT14) (Squamous Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone LL002]

Catalog No	Format	Size
3861-MSM1-B1	Purified Ab conjugated to Biotin	0.5 ml at 100ug/ml

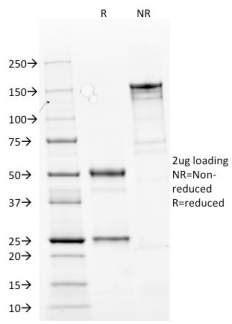
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

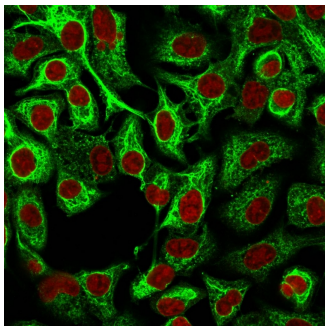
Clone	LL002
Gene Name	KRT14
Immunogen	A synthetic peptide of 15 amino acid from the C-terminus of human keratin 14.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG3
Mol. Weight of Antigen	~50kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	HeLa

**Optimal dilution for a specific application should be determined.*

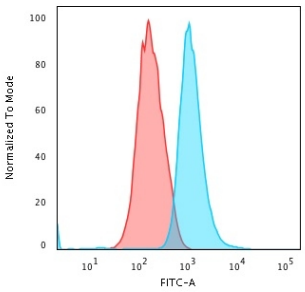
Product Images for Cytokeratin 14 (KRT14) (Squamous Cell Marker) Antibody



SDS-PAGE Analysis Purified Cytokeratin 14 Mouse Monoclonal Antibody (LL002). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence Analysis of A549 cells labeling CK14 with Cytokeratin 14 Mouse Monoclonal Antibody (LL002) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



Flow Cytometric Analysis of trypsinized MeOH-fixed HeLa cells using Cytokeratin 14 Mouse Monoclonal Antibody (LL002) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Basal Cell Marker, Developmental Biology

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.