

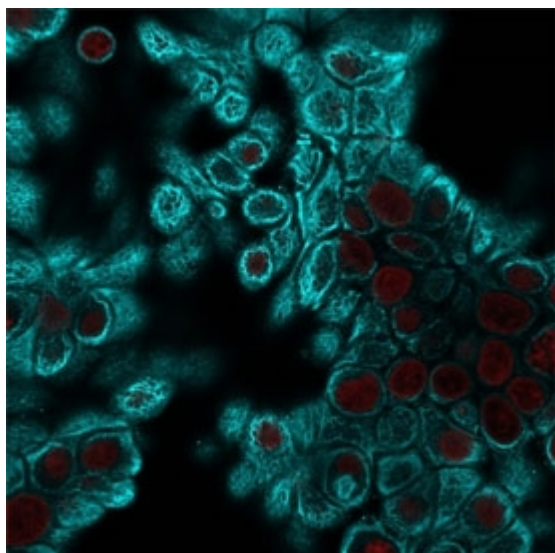
Pan Cytokeratin Antibody Cocktail [clone Cocktail PAN-CK] (V3070)

Catalog No.	Formulation	Size
V3070-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3070-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3070SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3070IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

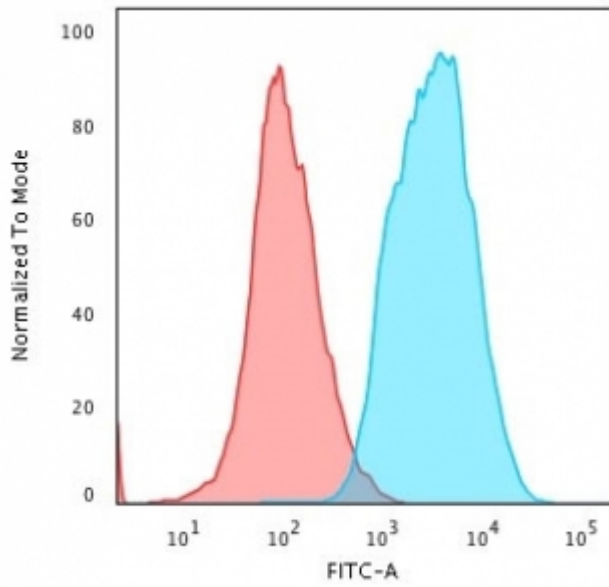
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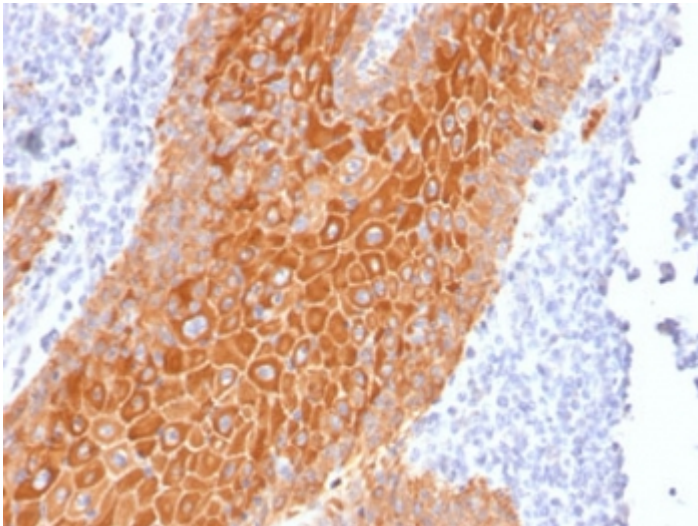
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	Cocktail PAN-CK
Purity	Protein G affinity chromatography
UniProt	Q7Z794, Q01546
Localization	Cytoplasmic
Applications	Flow cytometry : 0.5-1ug/million cells Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT Immunofluorescence : 1-2ug/ml
Limitations	This pan Cytokeratin antibody cocktail is available for research use only.



Immunofluorescent staining of human HeLa cells with pan Cytokeratin antibody cocktail (clone Cocktail PAN-CK, cyan) and NucSpot nuclear stain (red).



Flow cytometry testing of permeabilized human HeLa cells with pan Cytokeratin antibody cocktail (clone Cocktail PAN-CK); Red=isotype control, Blue= pan Cytokeratin antibody cocktail.



IHC staining of FFPE human squamous cell carcinoma with pan Cytokeratin antibody cocktail (clone Cocktail PAN-CK). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. KRT-PAN is a broad spectrum anti pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma of the lung, liver carcinoma, breast cancer, and esophageal cancer. It is useful in characterizing the source of various neoplasms and to study the distribution of cytokeratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.

Application Notes

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

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. 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.

Immunogen

Human epidermal keratin was used as the immunogen for the pan Cytokeratin antibody cocktail.

Storage

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