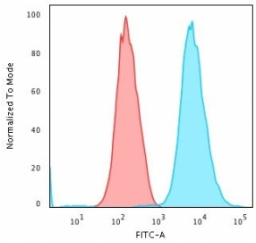
Cytokeratin 18 Antibody [clone DE-K18] (V2671)

Catalog No.	Formulation	Size
V2671-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2671-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2671SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2671IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

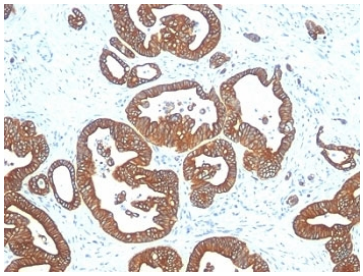
Citations (5)

Bulk quote request

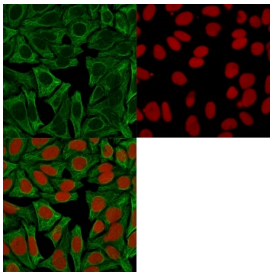
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	DE-K18
Purity	Protein G affinity chromatography
UniProt	P05783
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Western Blot : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This Cytokeratin 18 antibody is available for research use only.



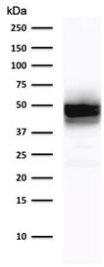
Flow cytometry testing of MeOH fixed human HeLa cells with Cytokeratin 18 antibody (clone DE-K18); Red=isotype control, Blue= Cytokeratin 18 antibody.



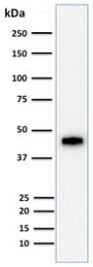
IHC analysis of formalin-fixed, paraffin-embedded human colon carcinoma stained with Cytokeratin 18 antibody (clone DE-K18).



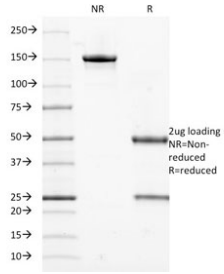
Immunofluorescent staining of permeabilized human HeLa cells with Cytokeratin 18 antibody (green, clone DE-K18) and Reddot nuclear stain (red).



Western blot testing of MCF7 cell lysate with Cytokerain 18 antibody (clone DE-K18). Expected molecular weight: 46-50 kDa.



Western blot testing of HCT116 cell lysate with Cytokerain 18 antibody (clone DE-K18). Expected molecular weight: 46-50 kDa.



SDS-PAGE analysis of purified, BSA-free Cytokeratin 18 antibody (clone DE-K18) as confirmation of integrity and purity.

Description

This mAb reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid. Cytokeratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins, exists in combination with cytokeratin 8. It was reported that tissues from gastrointestinal tract are positive for both cytokeratin 8 and 18 but do not contain cytokeratin 14. Tissues from gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for cytokeratin 18.

Application Notes

Optimal dilution of the Cytokeratin 18 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA 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

A cytoskeletal preparation from A431 cells was used as the immunogen for the Cytokeratin 18 antibody.

Storage

Store the Cytokeratin 18 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).