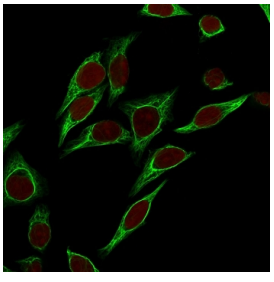
Cytokeratin 18 Antibody [clone SPM265] (V9040)

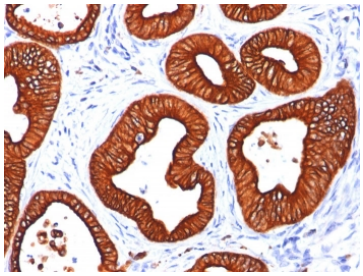
Catalog No.	Formulation	Size
V9040-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9040-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V9040SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V9040IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

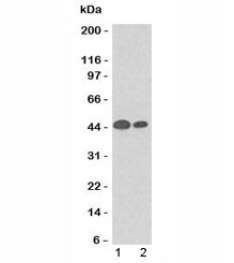
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM265
Purity	Protein G affinity chromatography
UniProt	P05783
Localization	Cytoplasmic
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Cytokeratin 18 antibody is available for research use only.



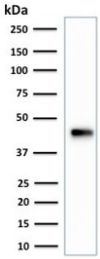
Immunofluorescent staining of permeabilized human HeLa cells with Cytokeratin 18 antibody (clone SPM265, green) and Reddot nuclear stain (red).



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Cytokeratin 18 antibody (clone SPM265).



Western blot testing of human 1) A431 and 2) HeLa lysate using Cytokeratin 18 antibody (clone SPM265). Predicted molecular weight ~48 kDa.



Western blot testing of human HCT116 cell lysate using Cytokeratin 18 antibody (clone SPM265). Predicted molecular weight ~48 kDa.

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 is 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

The optimal dilution of the Cytokeratin 18 antibody for each application 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 minutes.
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

The human breast cancer cell line PMC-42 was used as the immunogen for this Cytokeratin 18 antibody.

Storage

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