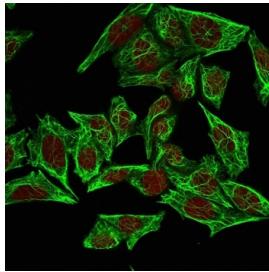


## Keratin 7 Antibody [clone SPM270] (V2655)

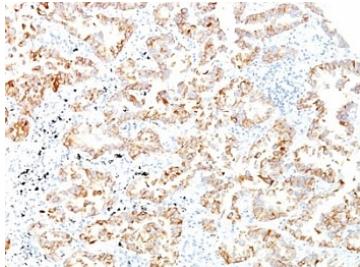
Catalog No.	Formulation	Size
V2655-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2655-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2655SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2655IHC-7ML	Prediluted 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](#)

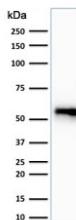
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	SPM270
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P08729
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This Keratin 7 antibody is available for research use only.



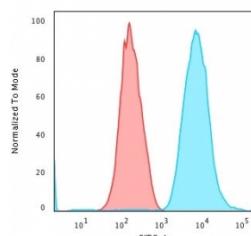
Immunofluorescent staining of permeabilized human HeLa cells with Keratin 7 antibody (clone SPM270, green) and Reddot nuclear stain (red).



IHC: Formalin-fixed, paraffin-embedded human lung SCC stained with Keratin 7 antibody (clone SPM270).



Western blot testing of human HeLa cell lysate with Keratin 7 antibody. Predicted molecular weight ~51 kDa.



Flow cytometry testing of Me-OH fixed human HeLa cells with Keratin 7 antibody (clone SPM270); Red=isotype control, Blue= Keratin 7 antibody.

## Description

It recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This mAb is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs. Cytokeratin 7 is a basic cytokeratin, which is found in most glandular and transitional epithelia but not in the stratified squamous epithelia. Keratin 7 is expressed in the epithelial cells of ovary, lung, and breast but not of colon, prostate, or gastrointestinal tract. This mAb is highly useful in distinguishing ovarian carcinomas (keratin 7+) from colon carcinomas (keratin 7-).

## Application Notes

Optimal dilution of the Keratin 7 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 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**

OTN 11 cells (ovarian carcinoma cell line) were used as the immunogen for the Keratin 7 antibody.

## **Storage**

Store the Keratin 7 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).