

## Product datasheet

# Anti-Cytokeratin 7 antibody [SP52] ab183344

**KO VALIDATED** Recombinant RabMAB

★★★★★ [1 Abreviews](#) [6 References](#) [15 Images](#)

### Overview

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<b>Product name</b>	Anti-Cytokeratin 7 antibody [SP52]
<b>Description</b>	Rabbit monoclonal [SP52] to Cytokeratin 7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human breast carcinoma, breast, pancreatic adenocarcinoma, breast ductal cell carcinoma, bladder, bladder transitional cell carcinoma, prostate, prostate adenocarcinoma, endometrium, endometrial adenocarcinoma and pancreas tissues; WB: HeLa cell and A549 cell lysates; ICC/IF: HeLa cells.
<b>General notes</b>	<b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: 1% BSA, 98% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SP52
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183344 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	1/100.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/25. Predicted molecular weight: 51 kDa.

## Target

### Function

Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7).

### Tissue specificity

Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the junction between stomach and esophagus but is absent in the esophagus.

### Sequence similarities

Belongs to the intermediate filament family.

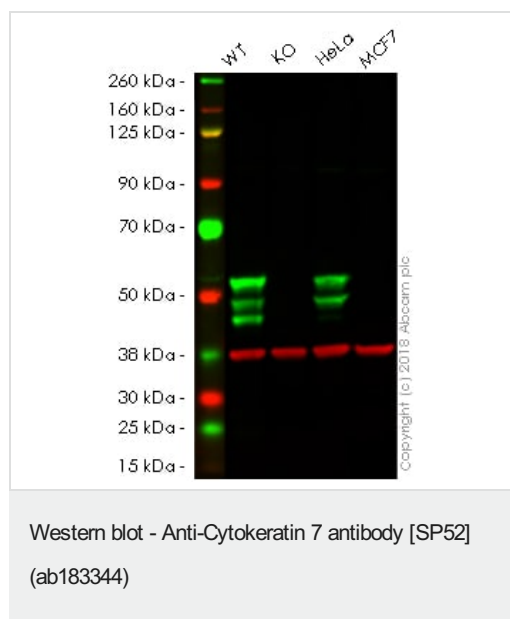
### Post-translational modifications

Arg-20 is dimethylated, probably to asymmetric dimethylarginine.

### Cellular localization

Cytoplasm.

## Images



**All lanes** : Anti-Cytokeratin 7 antibody [SP52] (ab183344) at 1/25 dilution

**Lane 1** : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2** : KRT7 knockout A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 3** : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4** : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

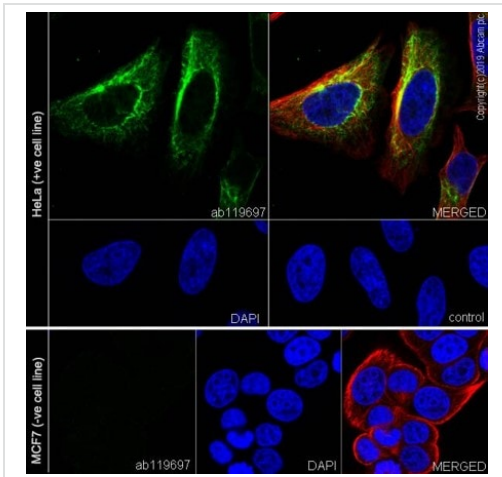
Performed under reducing conditions.

**Predicted band size:** 51 kDa

**Observed band size:** 50 kDa

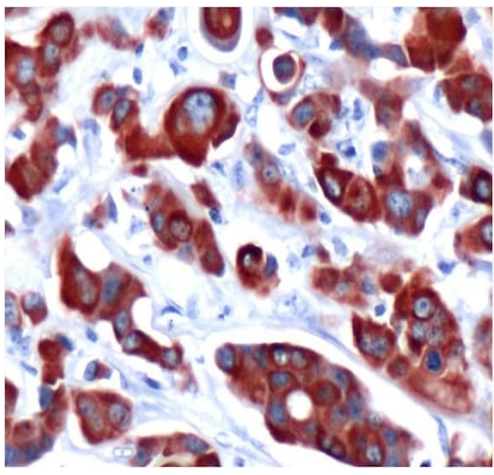
**Lanes 1 - 4:** Merged signal (red and green). Green - ab183344 observed at 50 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab183344 was shown to specifically react with KRT7 (Cytokeratin 7) in wild-type A549 cells as signal was lost in KRT7 knockout cells. Wild-type and KRT7 knockout samples were subjected to SDS-PAGE. Ab183344 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/25 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



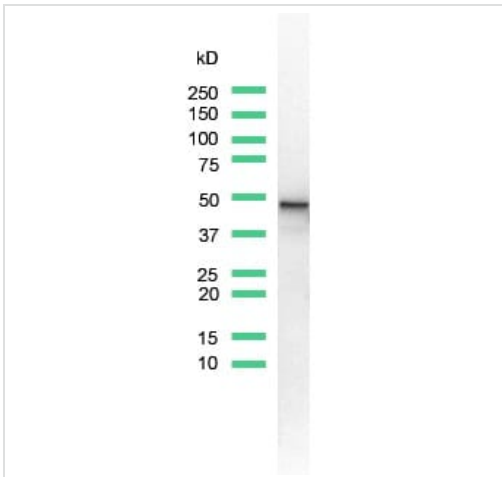
Immunocytochemistry analysis of HeLa (human cervix adenocarcinoma epithelial cell) and MCF7 (human breast adenocarcinoma epithelial cell) cells labeling Cytokeratin 7 with purified ab183344 at 1/100 (0.92 µg/mL). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Immunohistochemical analysis of paraffin embedded Human breast carcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

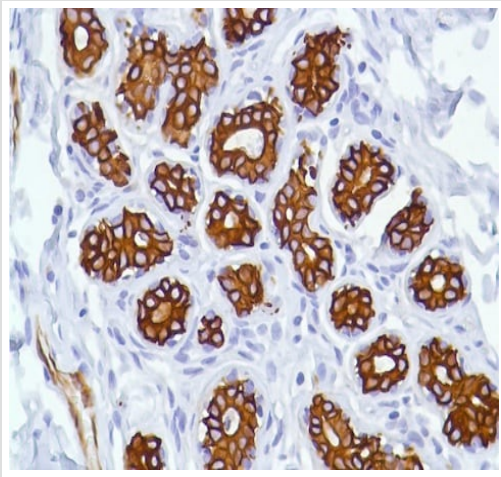
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Anti-Cytokeratin 7 antibody [SP52] (ab183344) at 1/25 dilution + HeLa cell lysate

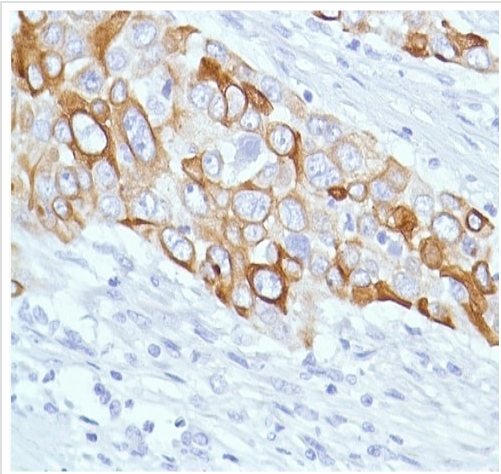
**Predicted band size: 51 kDa**

Western blot - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



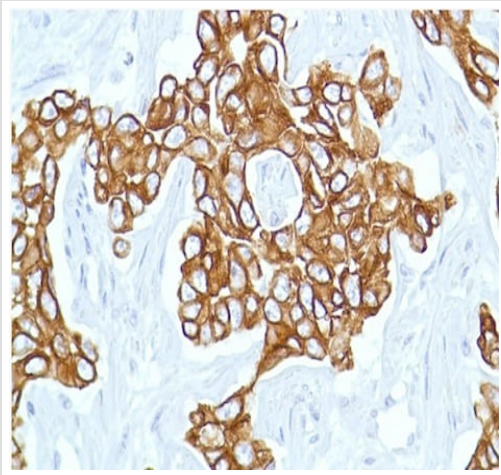
Immunohistochemical analysis of paraffin embedded Human breast tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



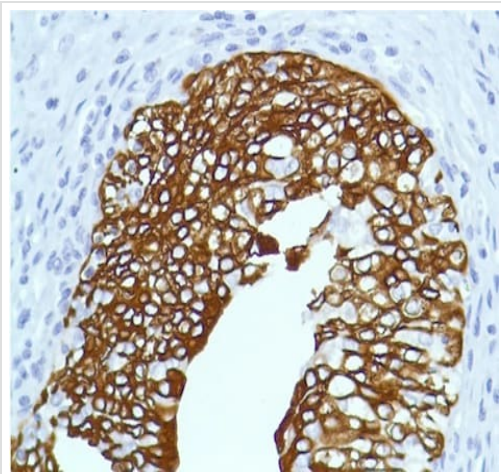
Immunohistochemical analysis of paraffin embedded Human pancreatic adenocarcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Immunohistochemical analysis of paraffin embedded Human breast ductal cell carcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

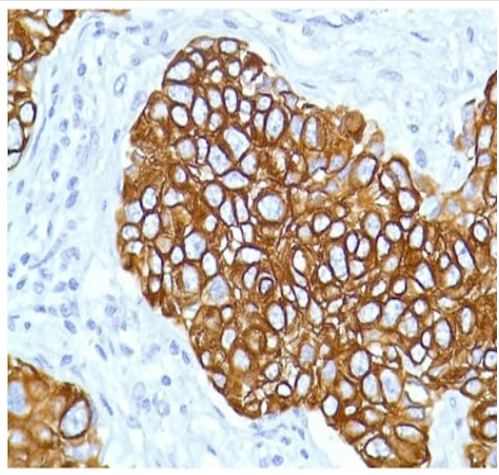
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Immunohistochemical analysis of paraffin embedded Human bladder tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

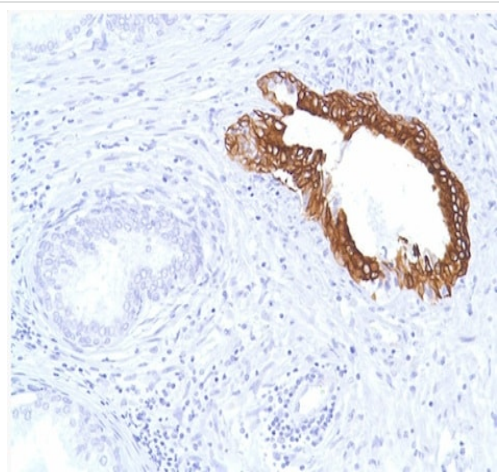
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)





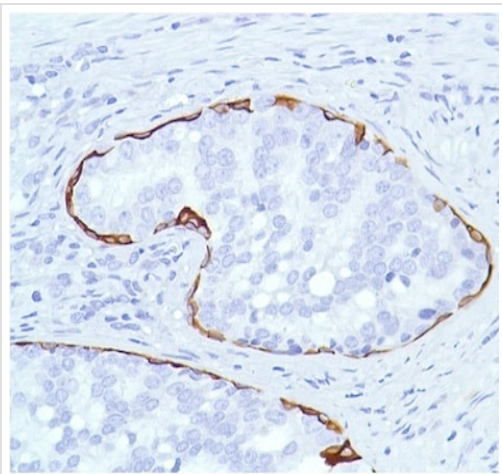
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)

Immunohistochemical analysis of paraffin embedded Human bladder transitional cell carcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.



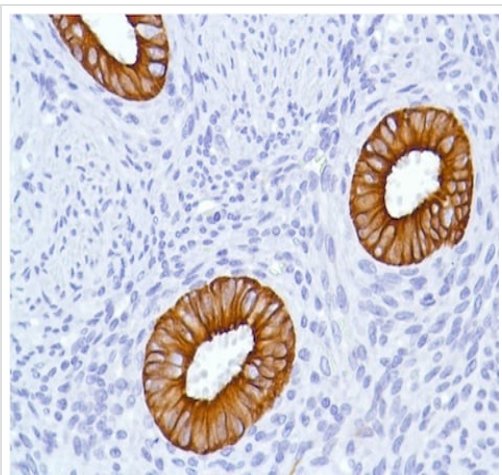
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)

Immunohistochemical analysis of paraffin embedded Human prostate tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.



Immunohistochemical analysis of paraffin embedded Human prostate adenocarcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

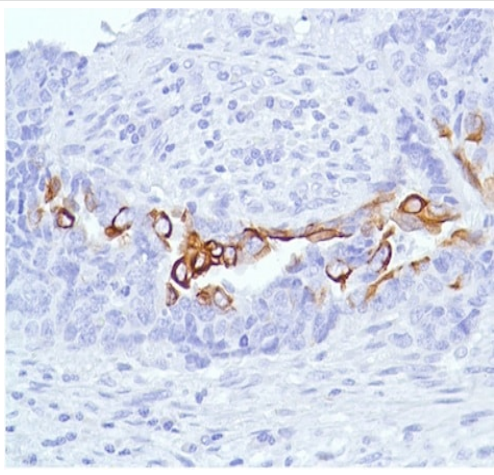
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Immunohistochemical analysis of paraffin embedded Human endometrium tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

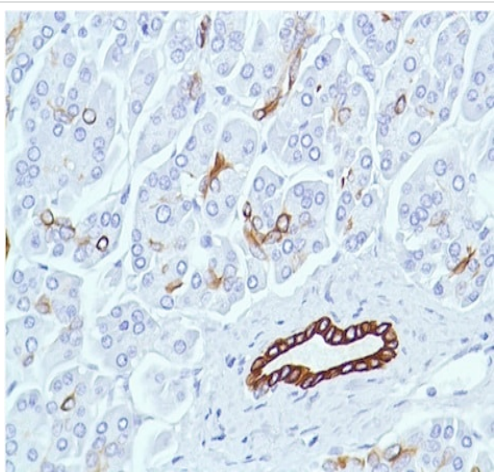
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)





Immunohistochemical analysis of paraffin embedded Human endometrial adenocarcinoma tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)



Immunohistochemical analysis of paraffin embedded Human pancreas tissue labeling Cytokeratin 7 with ab183344 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [SP52] (ab183344)

Why choose a recombinant antibody?

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**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-Cytokeratin 7 antibody [SP52] (ab183344)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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