

## Product datasheet

# Anti-Cytokeratin 20 antibody - Cytoskeleton Marker ab97511

[6 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-Cytokeratin 20 antibody - Cytoskeleton Marker
<b>Description</b>	Rabbit polyclonal to Cytokeratin 20 - Cytoskeleton Marker
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within amino acids 75-287 of Human Cytokeratin 20 (NP_061883).
<b>Positive control</b>	HeLa cell, HT29 xenograft
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab97511 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
WB		1/500 - 1/3000. Predicted molecular weight: 48 kDa.
IHC-P		1/100 - 1/500.
ICC/IF		1/100 - 1/200.

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**Target****Function**

Plays a significant role in maintaining keratin filament organization in intestinal epithelia. When phosphorylated, plays a role in the secretion of mucin in the small intestine.

**Tissue specificity**

Expressed predominantly in the intestinal epithelium. Expressed in luminal cells of colonic mucosa. Also expressed in the Merkel cells of keratinized oral mucosa; specifically at the tips of some rete ridges of the gingival mucosa, in the basal layer of the palatal mucosa and in the taste buds of lingual mucosa.

**Sequence similarities**

Belongs to the intermediate filament family.

**Developmental stage**

First detected at embryonic week 8 in individual 'converted' simple epithelial cells of the developing intestinal mucosa. In later fetal stages, synthesis extends over most goblet cells and a variable number of villus enterocytes. In the developing gastric and intestinal mucosa, expressed in all enterocytes and goblet cells as well as certain 'low-differentiated' columnar cells, whereas the neuroendocrine and Paneth cells are negative.

**Post-translational modifications**

Hyperphosphorylation at Ser-13 occurs during the early stages of apoptosis but becomes less prominent during the later stages. Phosphorylation at Ser-13 also increases in response to stress brought on by cell injury.  
Proteolytically cleaved by caspases during apoptosis. Cleavage occurs at Asp-228.

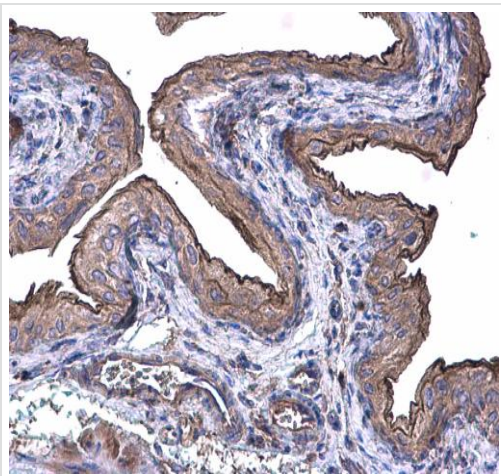
**Cellular localization**

Cytoplasm.

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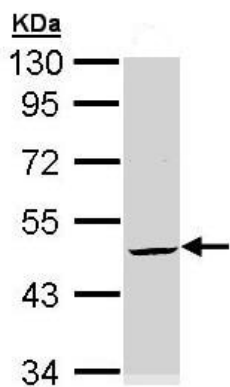
**Images**

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Ab97511 staining Cytokeratin 20 in Mouse urinary bladder by Immunohistochemistry (IHC-P-paraformaldehyde-fixed, paraffin embedded sections). Sample was incubated with primary antibody at a 1:500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 20 antibody - Cytoskeleton Marker (ab97511)

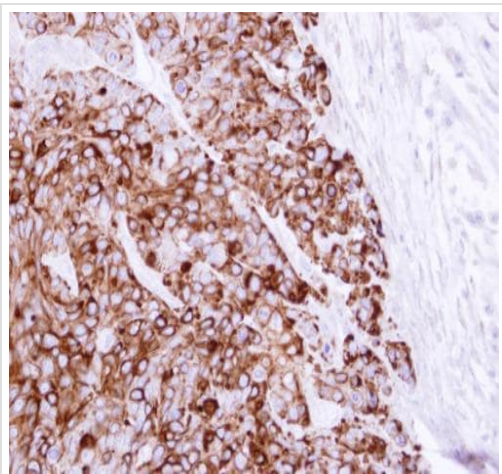


Anti-Cytokeratin 20 antibody - Cytoskeleton Marker (ab97511) at 1/3000 dilution + HeLa whole cell lysate at 30 µg

**Predicted band size: 48 kDa**

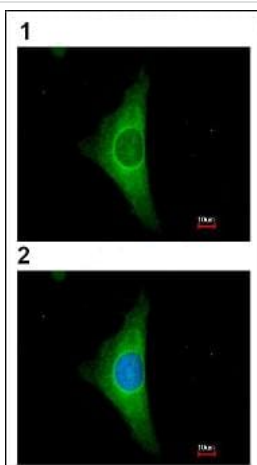
10% SDS PAGE

Western blot - Anti-Cytokeratin 20 antibody - Cytoskeleton Marker (ab97511)



Ab97511 staining Cytokeratin 20 in HT29 xenograft by Immunohistochemistry (IHC-P - paraformaldehyde - fixed, paraffin embedded sections). Samples were incubated with primary antibody at 1:100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 20 antibody - Cytoskeleton Marker (ab97511)



Immunofluorescence analysis of Cytokeratin 20 in paraformaldehyde fixed HeLa, using ab97511 at a 1/200 dilution. Lower image (2): merged with DNA probe.

Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 20 antibody - Cytoskeleton Marker (ab97511)

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