

## Product datasheet

# Anti-Cytokeratin 20 antibody [KRT20/1993] ab268107

[4 Images](#)

### Overview

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|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Cytokeratin 20 antibody [KRT20/1993]   |
| <b>Description</b>         | Mouse monoclonal [KRT20/1993] to Cytokeratin 20   |
| <b>Host species</b>        | Mouse   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IHC-P, Protein Array   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Recombinant fragment within Human Cytokeratin 20 aa 196-323. The exact sequence is proprietary.<br>Database link: <a href="#">P35900</a>  |
| <b>Positive control</b>    | WB: HT29 cell lysate. IHC-P: Human colon and colon carcinoma tissue.  |
| <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. 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: 7.2<br>Preservative: 0.05% Sodium azide<br>Constituents: PBS, 0.05% BSA   |
| <b>Purity</b>               | Protein A/G purified  |
| <b>Purification notes</b>   | Purified from bioreactor concentrate.   |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | KRT20/1993  |
| <b>Isotype</b>              | IgG2b   |

Light chain type

kappa

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab268107 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            |           | Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 48 kDa.  |
| IHC-P         |           | Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| Protein Array |           | Use at an assay dependent concentration.   |

## 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.

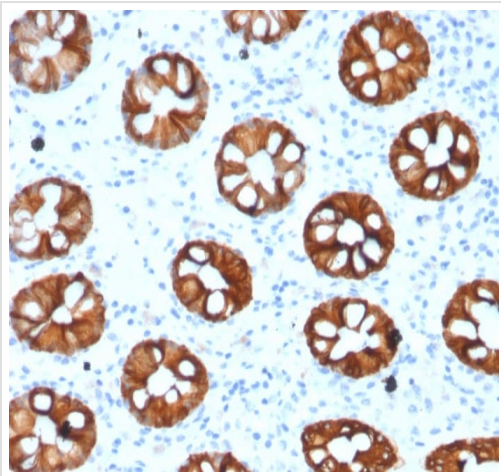
### Post-translational modifications

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

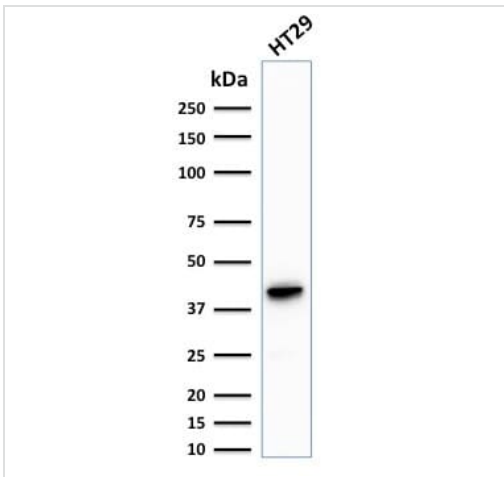
Cytoplasm.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 20 antibody [KRT20/1993] (ab268107)

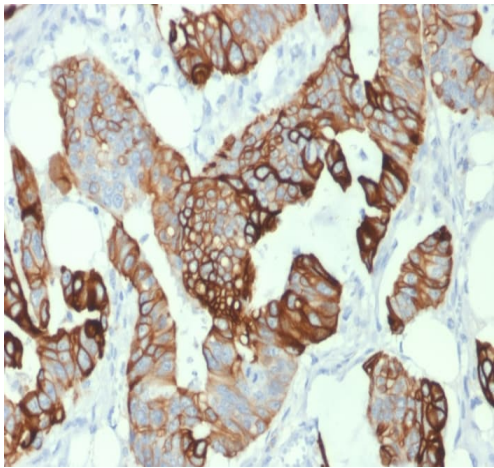
Formalin-fixed, paraffin-embedded human normal colon tissue stained for Cytokeratin 20 using ab268107 at 2  $\mu\text{g/ml}$  in immunohistochemical analysis.



Western blot - Anti-Cytokeratin 20 antibody [KRT20/1993] (ab268107)

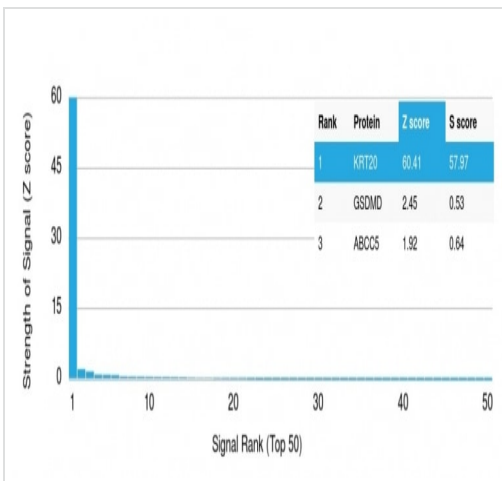
Anti-Cytokeratin 20 antibody [KRT20/1993] (ab268107) at 2  $\mu\text{g/ml}$  + HT29 (Human colorectal adenocarcinoma cell line) cell lysate

**Predicted band size: 48 kDa**



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 20 antibody [KRT20/1993] (ab268107)

Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Cytokeratin 20 using ab268107 at 2 µg/ml in immunohistochemical analysis.



Protein Array - Anti-Cytokeratin 20 antibody [KRT20/1993] (ab268107)

Protein Array containing more than 19,000 full-length human proteins using ab268107.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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