


## Product datasheet

### Biotin Anti-Cytokeratin 18 antibody [C-04] ab27553

★★★★★ [2 Abreviews](#) [4 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Biotin Anti-Cytokeratin 18 antibody [C-04]
<b>Description</b>	Biotin Mouse monoclonal [C-04] to Cytokeratin 18
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mammals 
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human Cytokeratin 18. Cytoskeleton preparation of epidermal carcinoma cell line A431
<b>Positive control</b>	WB: HT-29 (reducing and non-reducing conditions) cell lysate.
<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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
<b>Purity</b>	Size exclusion
<b>Purification notes</b>	Purity >95% by SDS-PAGE.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	C-04

Isotype IgG1

Applications

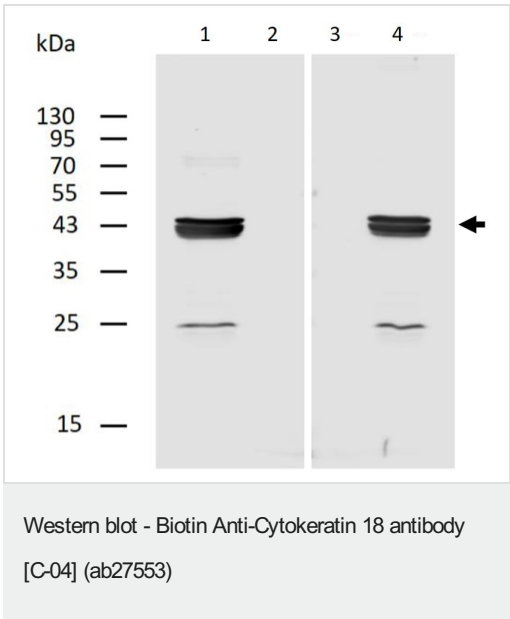
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab27553 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500. Predicted molecular weight: 47 kDa.

Target

Function	Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.
Tissue specificity	Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.
Involvement in disease	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
Sequence similarities	Belongs to the intermediate filament family.
Post-translational modifications	Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.
Cellular localization	Cytoplasm > perinuclear region.

Images



**All lanes :** Biotin Anti-Cytokeratin 18 antibody [C-04] (ab27553) at 2 µg/ml

- Lane 1 :** HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate (reducing conditions)
- Lane 2 :** MOLT-4 (Human lymphoblastic leukemia cell line) whole cell lysate (reducing conditions)
- Lane 3 :** MOLT-4 (Human lymphoblastic leukemia cell line) whole cell lysate (non-reducing conditions)
- Lane 4 :** HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate (non-reducing conditions)

**Secondary**  
**All lanes :** Conjugated Streptavidin

**Predicted band size:** 47 kDa

**Observed band size:** 46 kDa

Proteolytic fragment observed at approximately 25 kDa.

**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
- We investigate all quality concerns to ensure our products perform to the highest standards

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