

Product datasheet

Anti-Cytokeratin 7 antibody [EPR17079] ab199718

Recombinant RabMAb

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Overview

Product name	Anti-Cytokeratin 7 antibody [EPR17079]
Description	Rabbit monoclonal [EPR17079] to Cytokeratin 7
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse lung, bladder and skin lysates; Rat bladder and lung lysates. IHC-P: Mouse lung and colon tissues. IP: Mouse skin whole cell extract .

General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR17079
Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab199718 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		1/4000. Detects a band of approximately 45, 51 kDa (predicted molecular weight: 51 kDa).
IHC-P		1/800. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

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).

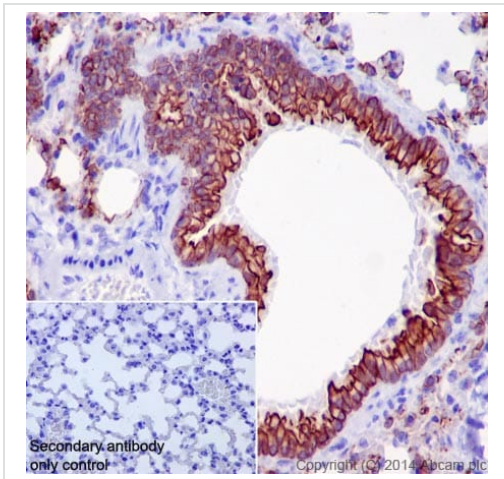
Tissue specificity Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the junction between stomach and esophagus but is absent in the esophagus.

Sequence similarities Belongs to the intermediate filament family.

Post-translational modifications Arg-20 is dimethylated, probably to asymmetric dimethylarginine.

Cellular localization Cytoplasm.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [EPR17079] (ab199718)

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling Cytokeratin 7 with ab199718 at 1/1600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on mouse lung tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Cytokeratin 7 antibody [EPR17079] (ab199718)

All lanes : Anti-Cytokeratin 7 antibody [EPR17079] (ab199718) at 1/20000 dilution

Lane 1 : Mouse lung lysate

Lane 2 : Mouse bladder lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

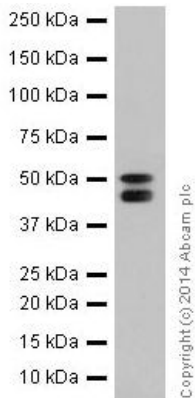
Predicted band size: 51 kDa

Observed band size: 45,51 kDa

Exposure time: 15 seconds

~45 kDa bands are supported by the literature and competitor's products, which may be an isoform. The observed MW is consistent with what has been described in the literature PMID:16265353.

Blocking/dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Cytokeratin 7 antibody
[EPR17079] (ab199718)

Anti-Cytokeratin 7 antibody [EPR17079] (ab199718) at 1/20000 dilution + Mouse skin lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

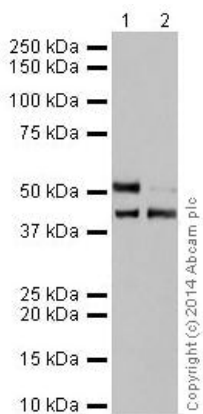
Predicted band size: 51 kDa

Observed band size: 45,51 kDa

Exposure time: 3 minutes

~45 kDa bands are supported by the literature and competitor's products, which may be an isoform. The observed MW is consistent with what has been described in the literature PMID:16265353.

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Cytokeratin 7 antibody
[EPR17079] (ab199718)

All lanes : Anti-Cytokeratin 7 antibody [EPR17079] (ab199718) at 1/4000 dilution

Lane 1 : Rat bladder lysate

Lane 2 : Rat lung lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 51 kDa

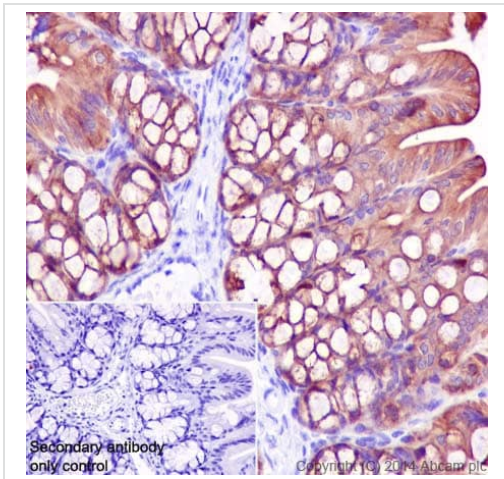
Observed band size: 45,51 kDa

Exposure time: 15 seconds

~45 kDa bands are supported by the literature and competitor's products, which may be an isoform. The observed MW is consistent

with what has been described in the literature PMID:16265353.

Blocking/Dilution buffer: 5% NFDm/TBST.

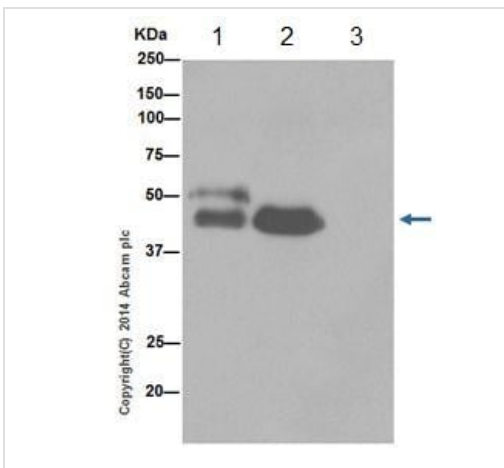


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [EPR17079] (ab199718)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Cytokeratin 7 with ab199718 at 1/1600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on mouse colon tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Cytokeratin 7 antibody [EPR17079] (ab199718)

Cytokeratin 7 was immunoprecipitated from 1mg of Mouse skin whole cell extract with ab199718 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab199718 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Mouse skin whole cell extract 10 μ g (Input). Lane 2: ab199718 IP in Mouse skin whole cell extract. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab199718 in Mouse skin whole cell extract.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Why choose a recombinant antibody?

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 [EPR17079] (ab199718)

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

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