abcam

Product datasheet

Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free ab251287

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free
Description	Rabbit monoclonal [EPR17079] to Cytokeratin 7 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	ab251287 is the carrier-free version of ab199718. Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Clonality	Monoclonal
Clone number	EPR17079
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab251287 in the following tested applications.

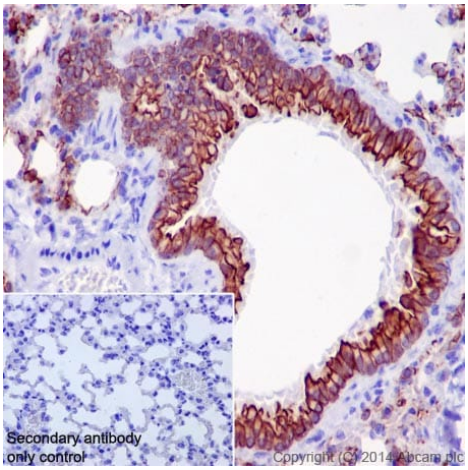
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 45, 51 kDa (predicted molecular weight: 51 kDa).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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.

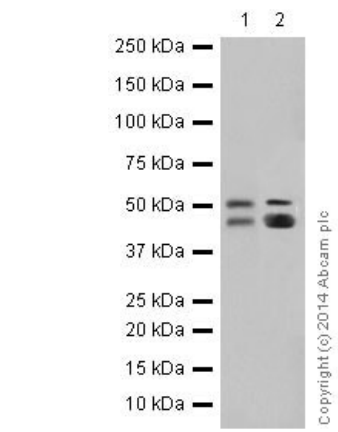
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

This data was developed using ab199718, the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (ab251287)

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

Lane 1 : Mouse lung tissue lysate
Lane 2 : Mouse bladder tissue 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

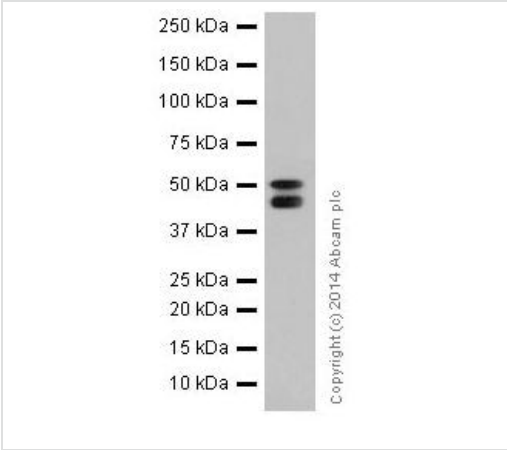
Exposure time: 15 seconds

This data was developed using ab199718, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

~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.



Western blot - Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

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

Secondary

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

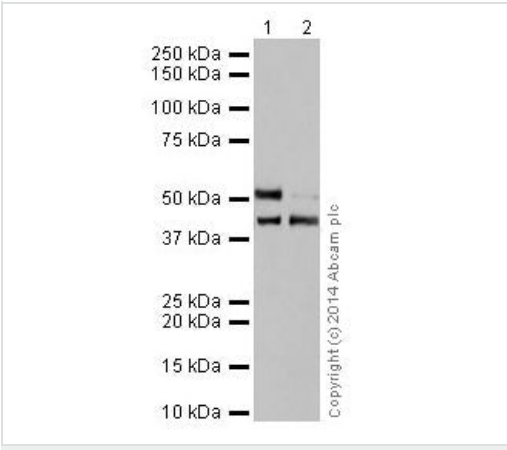
Predicted band size: 51 kDa
Observed band size: 45,51 kDa

Exposure time: 3 minutes

This data was developed using ab199718, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

~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.



Western blot - Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

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

Lane 1 : Rat bladder tissue lysate
Lane 2 : Rat lung tissue 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

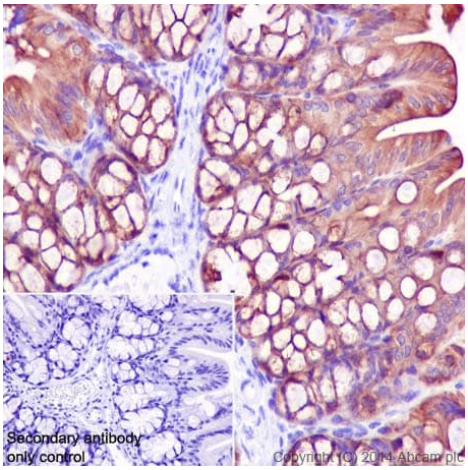
Exposure time: 15 seconds

This data was developed using ab199718, the same antibody clone

in a different buffer formulation.

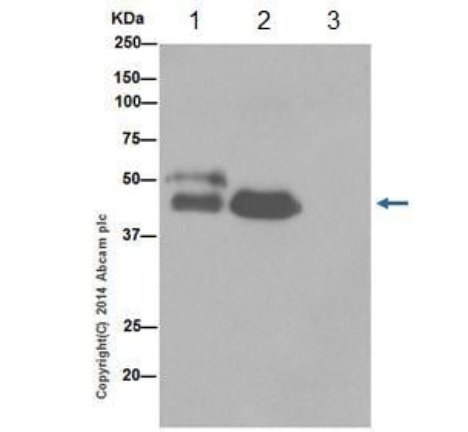
Blocking and dilution buffer: 5% NFDM/TBST.

~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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

This data was developed using ab199718, the same antibody clone in a different buffer formulation.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.



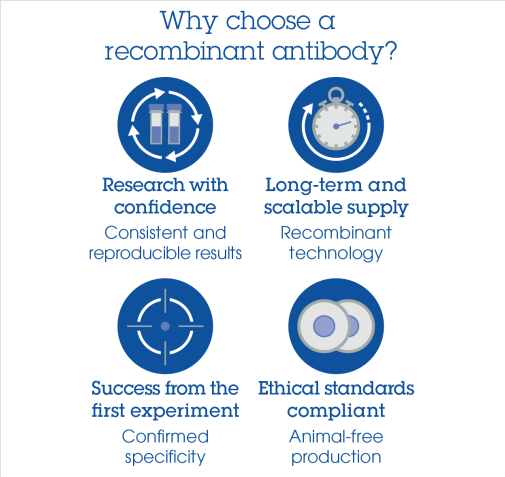
Immunoprecipitation - Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

This data was developed using ab199718, the same antibody clone in a different buffer formulation.

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 µg (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: 5% NFDM/TBST.



Anti-Cytokeratin 7 antibody [EPR17079] - BSA and Azide free (ab251287)

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