

Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free ab181831

KO VALIDATED Recombinant RabMAB

[2 References](#) [5 Images](#)

Overview

Product name	Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free
Description	Rabbit monoclonal [EPR1619Y] to Cytokeratin 7 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, IP, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human bladder carcinoma tissue.
General notes	<p>ab181831 is the carrier-free version of ab68459.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR1619Y
Isotype	IgG

Applications

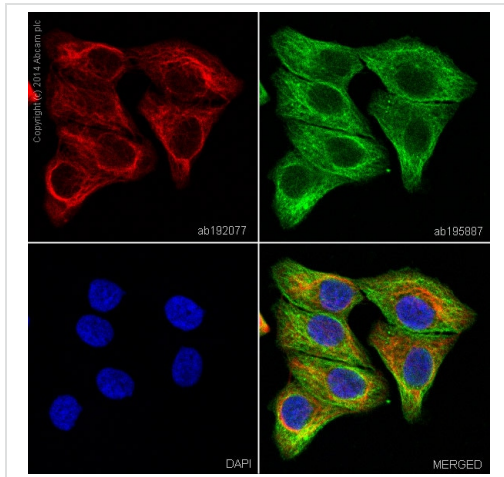
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181831 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).

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



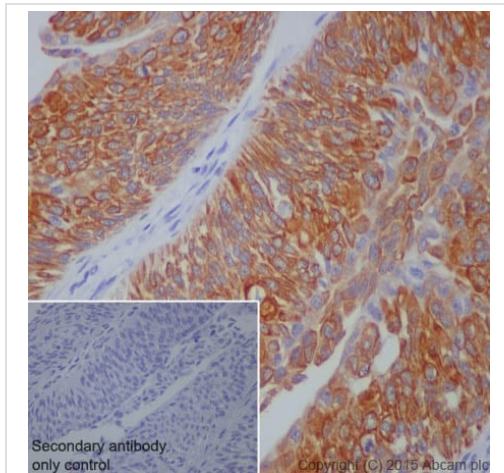
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free (ab181831)

Clone EPR1619Y (ab181831) has been successfully conjugated by Abcam. This image was generated using Anti-Cytokeratin 7 antibody [EPR1619Y] - Cytoskeleton Marker (Alexa Fluor® 647). Please refer to [ab192077](#) for protocol details.

[ab192077](#) staining Cytokeratin 7 in T47D cells. The cells were fixed with 4% formaldehyde (10 min), permeabilised in 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with [ab192077](#) at a working dilution of 1 in 100 (shown in red) and [ab195887](#), Mouse monoclonal [DM1A] to alpha Tubulin (Alexa Fluor® 488, shown in green) at 2µg/ml overnight at +4°C. Nuclear DNA was labelled in blue with DAPI.

This product gave a positive signal in 100% methanol (5 min) fixed T47D cells under the same testing conditions.

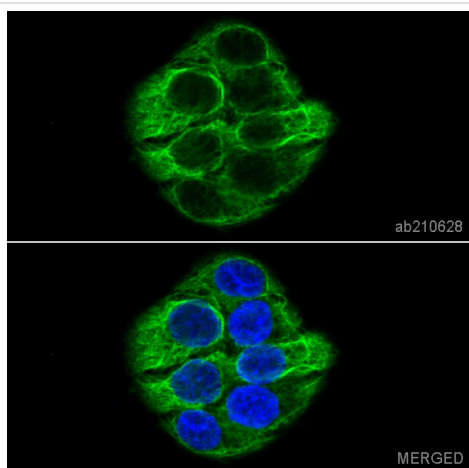
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free (ab181831)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder carcinoma tissue labelling Cytokeratin 7 with purified [ab68459](#) at a dilution of 1/1000. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab68459](#)).



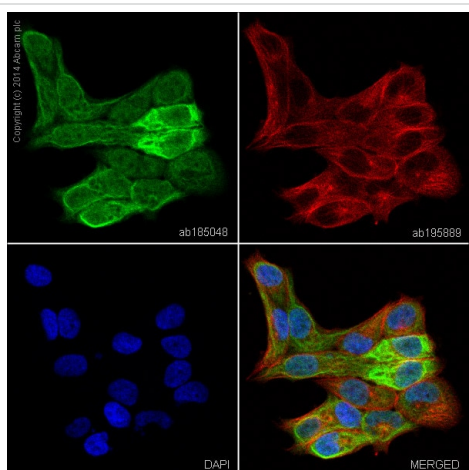
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free (ab181831)

Clone EPR1619Y (ab181831) has been successfully conjugated by Abcam. This image was generated using Anti-Cytokeratin 7 antibody [EPR1619Y] - Cytoskeleton Marker (PE). Please refer to [ab210628](#) for protocol details.

Figure Legend for the image: [ab210628](#) staining Cytokeratin 7 in T74D cells. The cells were fixed with 100% methanol, permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab210628](#) at 1/100 dilution (pseudocolored in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in T74D cells fixed with 4% formaldehyde.



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 7 antibody [EPR1619Y] - BSA and Azide free (ab181831)

Clone EPR1619Y (ab181831) has been successfully conjugated by Abcam. This image was generated using Anti-Cytokeratin 7 antibody [EPR1619Y] - Cytoskeleton Marker (Alexa Fluor® 488). Please refer to [ab185048](#) for protocol details.

[ab185048](#) staining Cytokeratin 7 in T47D cells. The cells were fixed with 4% formaldehyde (10 min), permeabilised in 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with [ab185048](#) at 1/100 dilution (shown in green) and [ab195889](#), Mouse monoclonal [DM1A] to alpha Tubulin (Alexa Fluor® 594, shown in red) at 2µg/ml overnight at +4°C. Nuclear DNA was labelled in blue with DAPI.

This product gave a positive signal in 100% methanol (5 min) fixed A549 cells under the same testing conditions.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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

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