

# Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free ab284783

Recombinant RabMAb

6 Images

## Overview

<b>Product name</b>	Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP1630] to Cytokeratin 8 (phospho S431) - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP, ICC/IF <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa lysates IHC-P: Human ductal breast carcinoma and Human stomach adenocarcinoma tissues. ICC/IF: HeLa. IP: HeLa treated with Calyculin A whole cell lysate.
<b>General notes</b>	ab284783 is the carrier-free version of <a href="#">ab109452</a>

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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

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

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.

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&As

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1630
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab284783 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. Predicted molecular weight: 53 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

**Application notes** Is unsuitable for Flow Cyt.

## Target

<b>Function</b>	Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.
<b>Tissue specificity</b>	Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.
<b>Involvement in disease</b>	Cirrhosis
<b>Sequence similarities</b>	Belongs to the intermediate filament family.
<b>Post-translational modifications</b>	Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization.

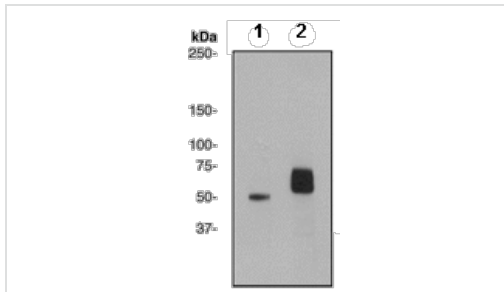
O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation.

O-glycosylated (O-GlcNAcylation), in a cell cycle-dependent manner.

## Cellular localization

Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix.

## Images



Western blot - Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

**All lanes :** Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] ([ab109452](#)) at 1/10000 dilution

**Lane 1 :** HeLa lysates, untreated

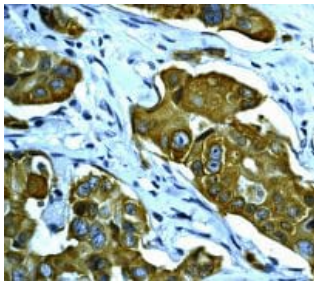
**Lane 2 :** HeLa lysates, treated with FBS and Calyculin A

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 53 kDa

**Observed band size:** 52 kDa

This data was developed using [ab109452](#), the same antibody clone in a different buffer formulation.

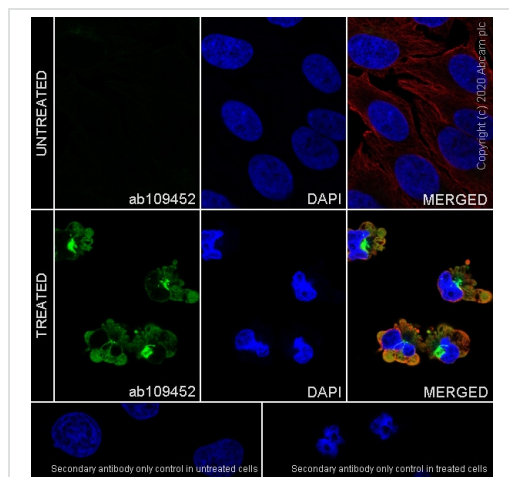


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

This data was developed using [ab109452](#), the same antibody clone in a different buffer formulation.

[ab109452](#) at 1/100 dilution staining Cytokeratin 8 in Human ductal breast carcinoma by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

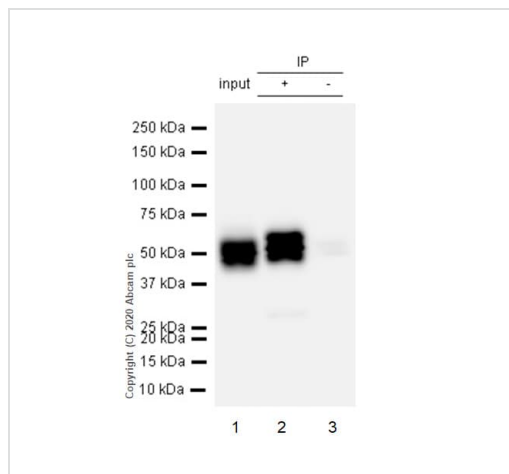


Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

This data was developed using [ab109452](#), the same antibody clone in a different buffer formulation.

Immunocytochemistry analysis of HeLa (human cervix adenocarcinoma epithelial cell) labeling Cytokeratin 8 with purified [ab109452](#) at 1/500 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/1000 (2 µg/ml) was used as the secondary antibody. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.26 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI.

Negative control: PBS instead of the primary antibody.



Immunoprecipitation - Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

This data was developed using [ab109452](#), the same antibody clone in a different buffer formulation.

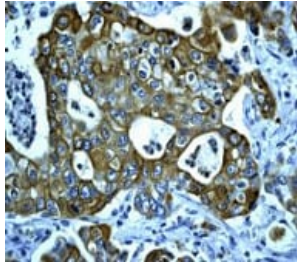
Purified [ab109452](#) at 1/20 dilution (0.5µg) immunoprecipitating Cytokeratin 8 in HeLa treated with Calyculin A whole cell lysate. Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) treated with Calyculin A whole cell lysate 10µg. Lane 2 (+): [ab109452](#) + HeLa treated with Calyculin A whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of [ab109452](#) in HeLa treated with Calyculin A whole cell lysate. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 52 kDa



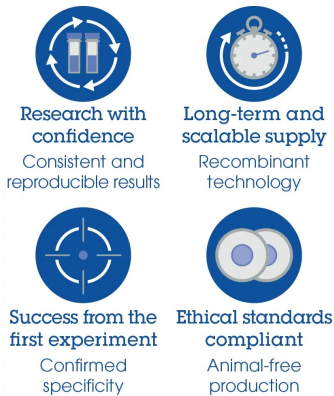
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

This data was developed using **ab109452**, the same antibody clone in a different buffer formulation.

**ab109452** at 1/100 dilution staining Cytokeratin 8 in Human stomach adenocarcinoma by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

#### Why choose a recombinant antibody?



Anti-Cytokeratin 8 (phospho S431) antibody [EP1630] - BSA and Azide free (ab284783)

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

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