

## Product datasheet

# Anti-CD10 antibody [SP179] - BSA and Azide free ab243934

Recombinant RabMAb

14 Images

### Overview

<b>Product name</b>	Anti-CD10 antibody [SP179] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [SP179] to CD10 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human CD10 aa 1-100 (N terminal) (phospho S4 + S6). The exact sequence is proprietary. Database link: <a href="#">P08473</a>
<b>Positive control</b>	IHC-P: Human kidney, breast, placenta, liver, prostate, renal cell carcinoma, Mouse kidney, and Rat kidney tissue; WB: LNCaP cell lysate; Flow Cyt: Ramos, 2.
<b>General notes</b>	FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a> . Ab243934 is the carrier-free version of <a href="#">ab227659</a> . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab243934 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

*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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	Purified from TCS by protein A/G.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SP179
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab243934** 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: 85 kDa.
IHC-P		Use at an assay dependent concentration.
Flow Cyt		1/20.

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## Target

### Function

Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers.

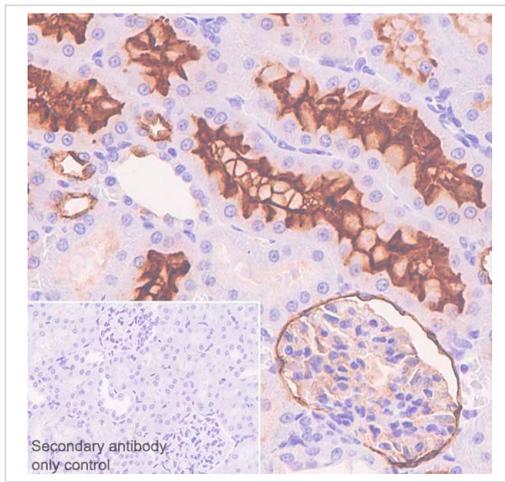
### Sequence similarities

Belongs to the peptidase M13 family.

### Cellular localization

Cell membrane.

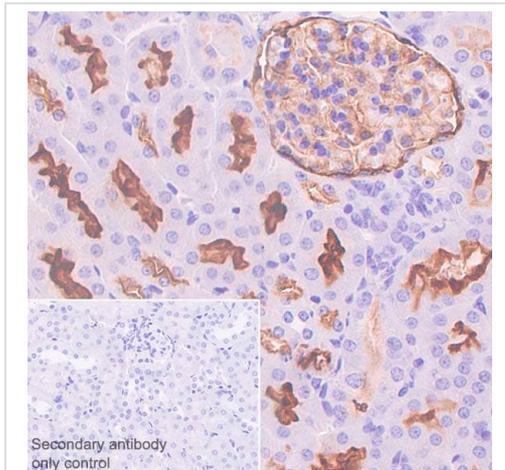
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat kidney tissue sections labeling CD10 with [ab227659](#) at 1/100 dilution (1.41 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

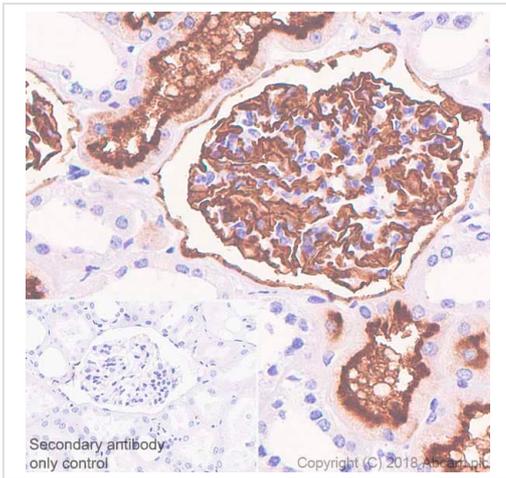
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse kidney tissue sections labeling CD10 with [ab227659](#) at 1/100 dilution (1.41 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

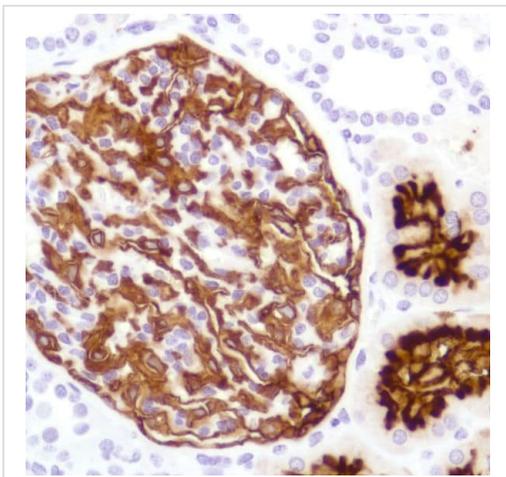
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human kidney tissue sections labeling CD10 with [ab227659](#) at 1/100 dilution (1.41 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

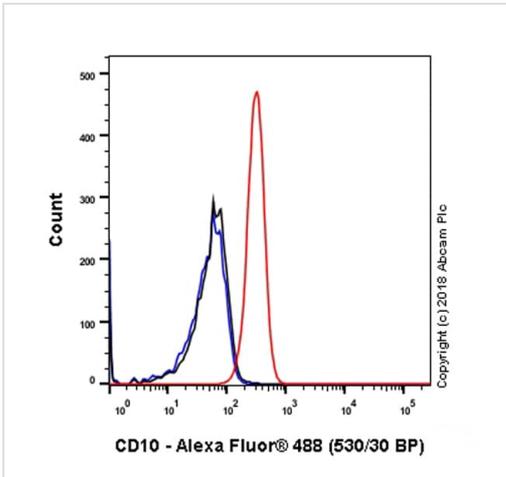
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human kidney tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

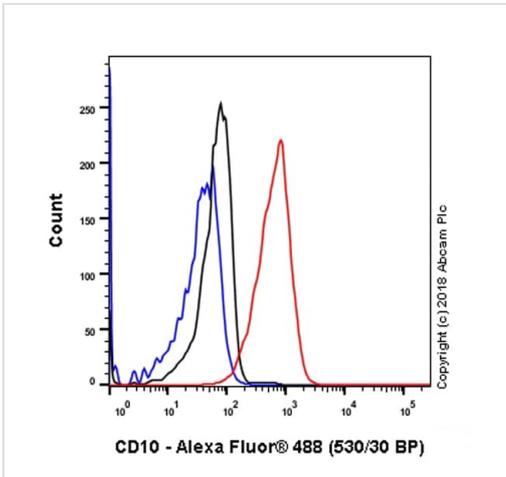
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Flow Cytometry - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Flow cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) labeling CD10 with purified [ab227659](#) at 1/20 dilution (7.05 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control -Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control -Unlabelled cells / blue.

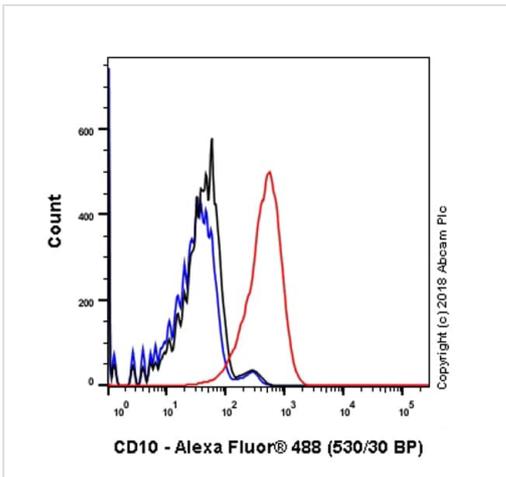
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#)).



Flow Cytometry - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Flow cytometry analysis of 2.4G2 (Rat B cell lymphoma B lymphocyte) labeling CD10 with purified [ab227659](#) at 1/200 dilution (0.705 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control -Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control -Unlabelled cells / blue.

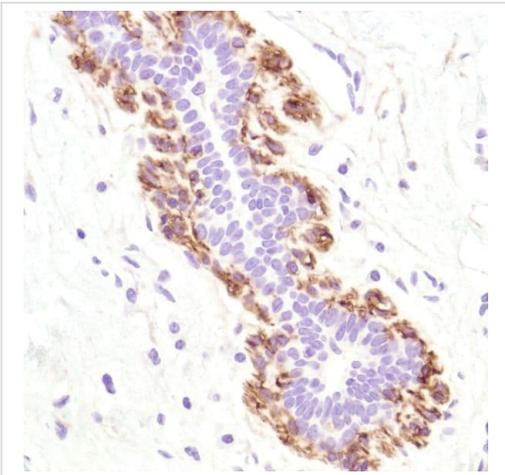
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#)).



Flow Cytometry - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Flow cytometry analysis of WEHI-231 (Mouse B cell lymphoma B lymphocyte) labeling CD10 with purified [ab227659](#) at 1/200 dilution (0.705 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control -Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control -Unlabelled cells / blue.

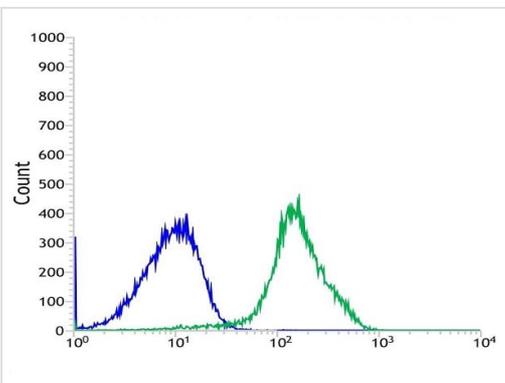
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227659](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human breast tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

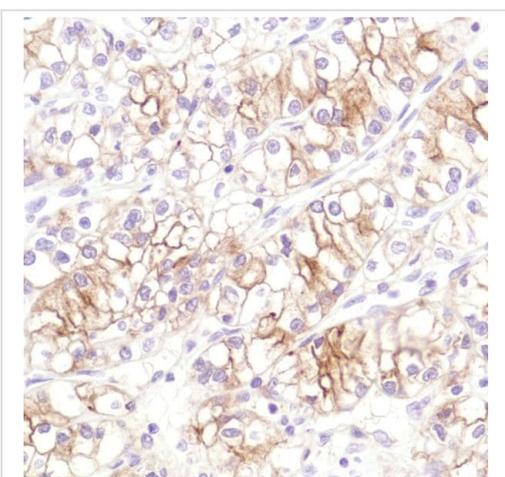
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Flow Cytometry - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Flow cytometric analysis of Ramos (human Burkitt's lymphoma cell line) cell line labeling CD10 with [ab227659](#) at 1/400 dilution (green) compared with a Rabbit IgG negative control (blue).

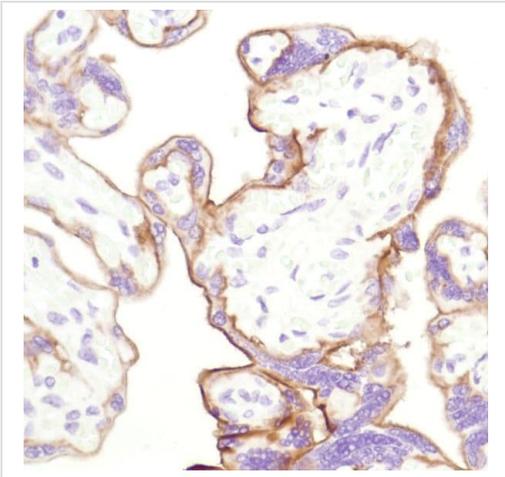
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human renal cell carcinoma tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

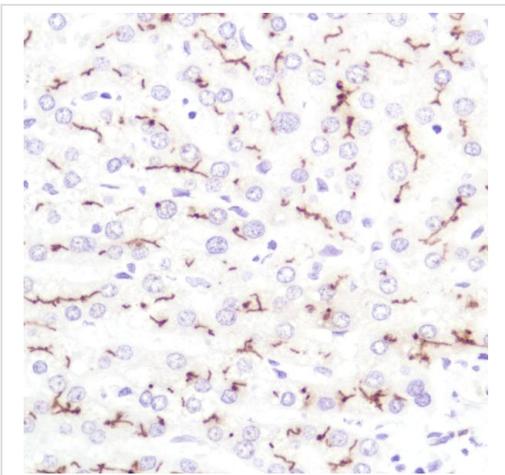
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human placenta tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

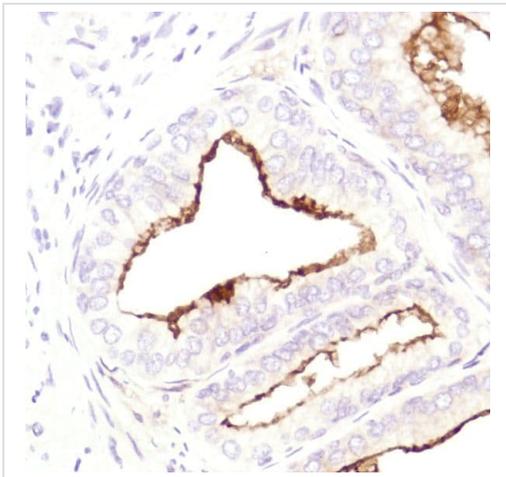
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human liver tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

Formalin-fixed, paraffin-embedded human prostate tissue stained for CD10 using [ab227659](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227659](#)).

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CD10 antibody [SP179] - BSA and Azide free (ab243934)

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

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