

## Product datasheet

# Anti-CD10 antibody [SP179] - N-terminal ab227659

Recombinant RabMAb

1 References 15 Images

### Overview

<b>Product name</b>	Anti-CD10 antibody [SP179] - N-terminal
<b>Description</b>	Rabbit monoclonal [SP179] to CD10 - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, IHC-P
<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>	<p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; 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.</p> <p>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&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Immunogen affinity 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 **ab227659** 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		1/400.
WB		1/400. Predicted molecular weight: 85 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Incubate with primary antibody for 10 minutes at room temperature.

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## Target

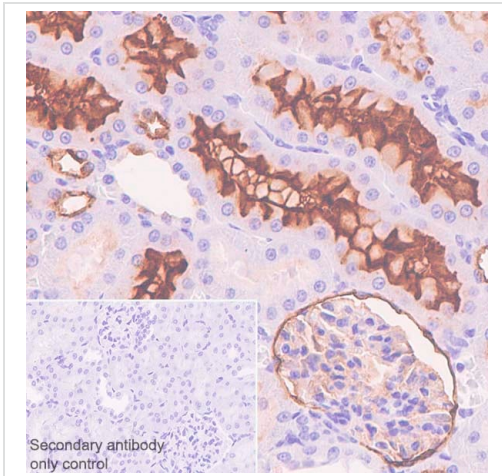
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<b>Function</b>	Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able 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.
<b>Sequence similarities</b>	Belongs to the peptidase M13 family.
<b>Cellular localization</b>	Cell membrane.

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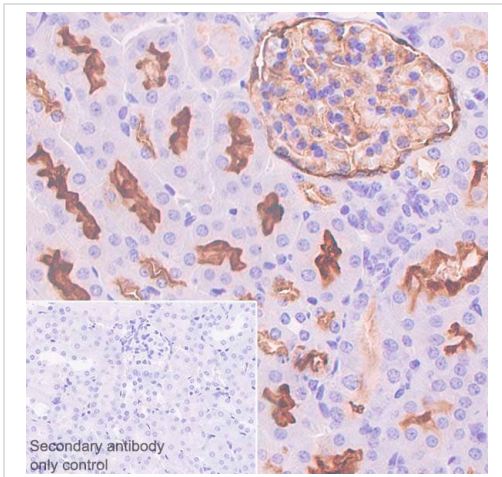
## Images

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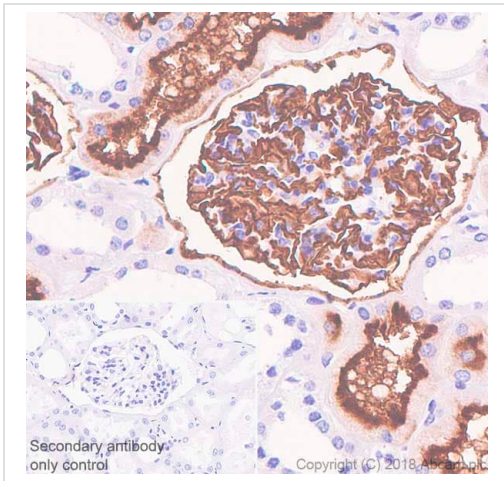
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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.



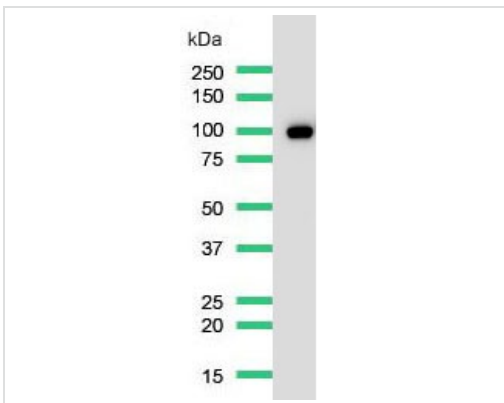
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

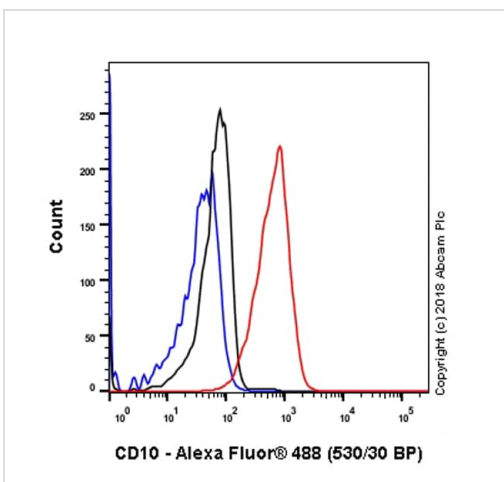
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human kidney tissue sections labeling CD10 with ab227659 at 1/100 dilution (1.41 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 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.



Western blot - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

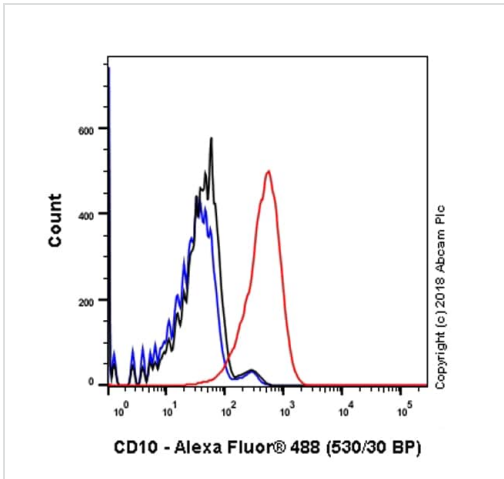
Anti-CD10 antibody [SP179] - N-terminal (ab227659) at 1/400 dilution + LNCaP (human prostate cancer cell line) cell lysate

**Predicted band size: 85 kDa**



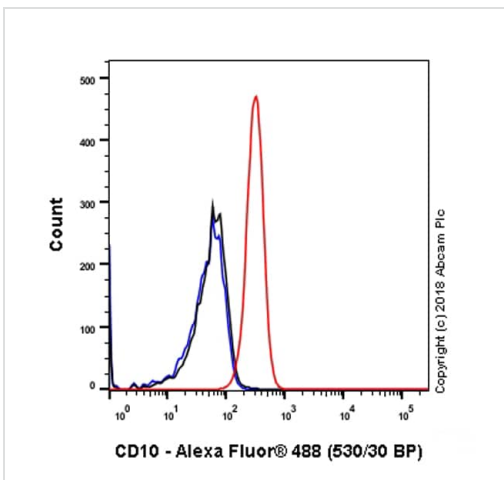
Flow Cytometry - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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.



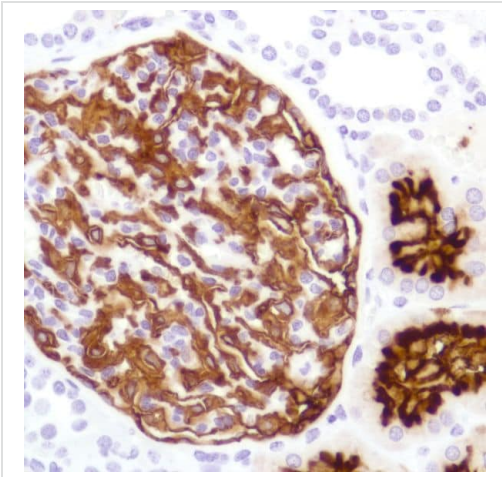
Flow Cytometry - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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.



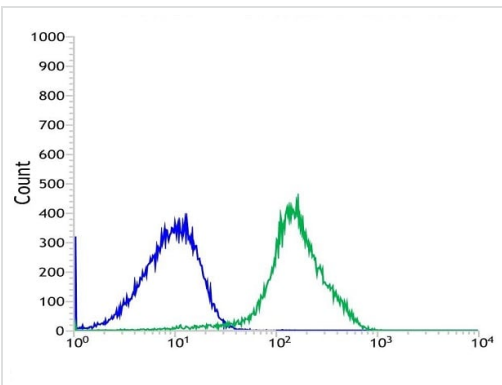
Flow Cytometry - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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.



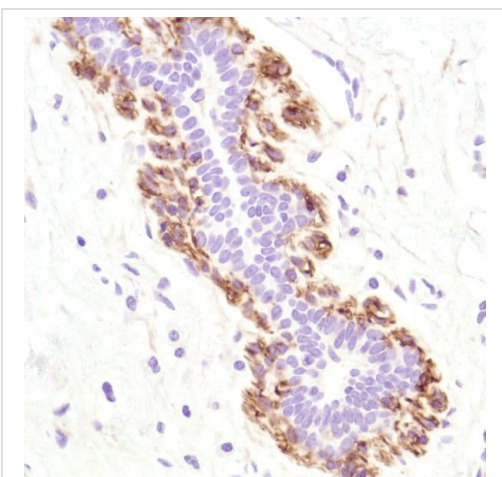
Formalin-fixed, paraffin-embedded human kidney tissue stained for CD10 using ab227659 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)



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).

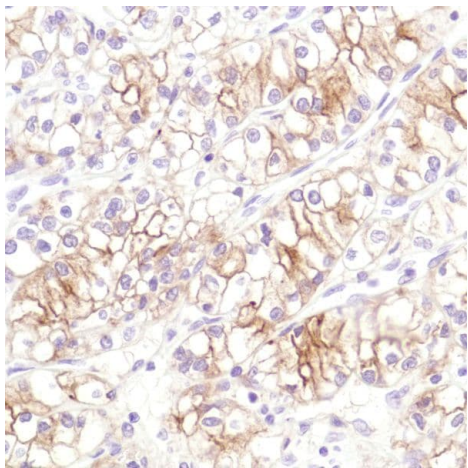
Flow Cytometry - Anti-CD10 antibody [SP179] - N-terminal (ab227659)



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

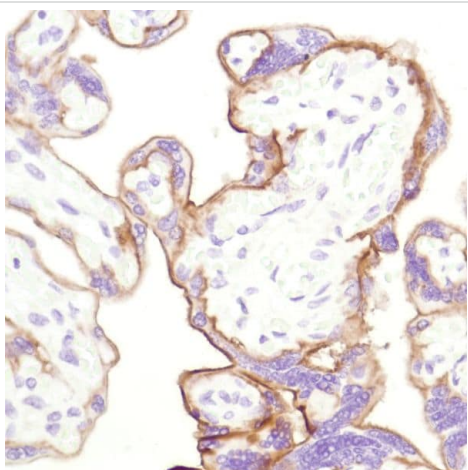
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)





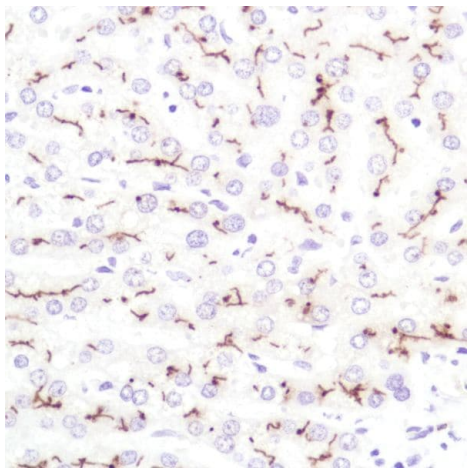
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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



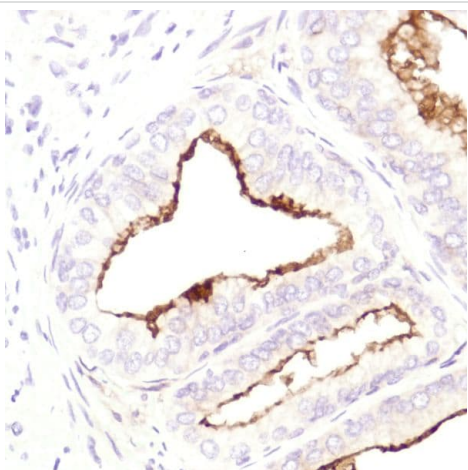
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

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



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [SP179] - N-terminal (ab227659)

### 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-CD10 antibody [SP179] - N-terminal (ab227659)



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

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