abcam

Product datasheet

Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free ab222225

KO VALIDATED Recombinant RabMAb

7 Images

Overview

Product name	Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR5904-110] to CD10 - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, IP, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: LNCaP, Raji and Ramos whole cell lysates; Human fetal kidney lysate. IHC-P: Human kidney and breast cancer tissues. IP: LNCaP whole cell lysate.
General notes	ab222225 is the carrier-free version of **ab208778**. 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**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5904-110
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222225 in the following tested applications.

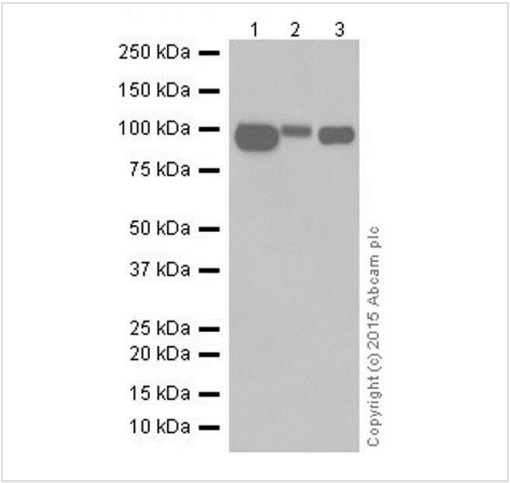
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 90-110 kDa (predicted molecular weight: 85 kDa).

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



Western blot - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

All lanes : Anti-CD10 antibody [EPR5904-110] (**ab208778**) at 1/1000 dilution

Lane 1 : LNCaP (Human prostate cancer cell line) whole cell lysate
Lane 2 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate
Lane 3 : Ramos (Human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

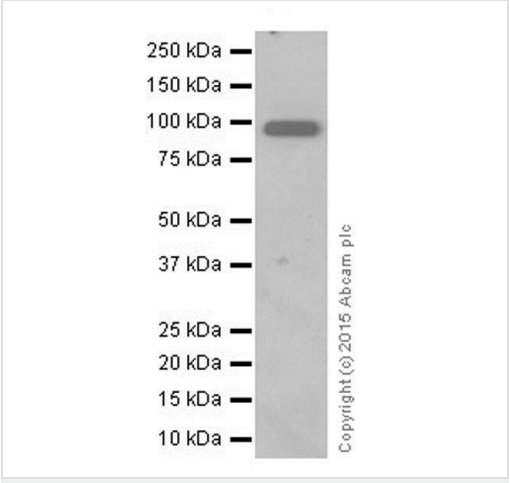
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 85 kDa
Observed band size: 90-110 kDa

Exposure time: 15 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

Anti-CD10 antibody [EPR5904-110] (**ab208778**) at 1/10000 dilution + Human fetal kidney lysate at 10 µg

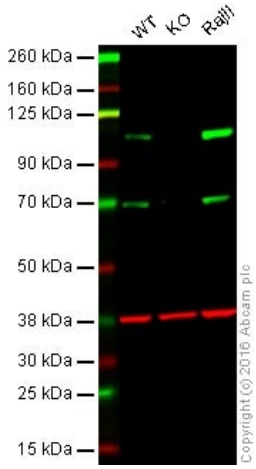
Secondary
Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 85 kDa
Observed band size: 90-110 kDa

Exposure time: 5 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).

Blocking/Dilution buffer: 5% NFDM/TBST.

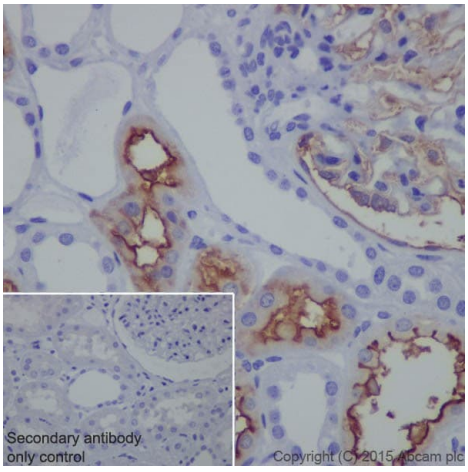


Western blot - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: CD10 knockout HAP1 whole cell lysate (20 µg)
Lane 3: RAJI whole cell lysate (20 µg)
Lanes 1 - 3: Merged signal (red and green). Green - **ab208778** observed at 100 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab208778 was shown to recognize CD10 when CD10 knockout samples were used, along with additional cross-reactive bands. Wild-type and CD10 knockout samples were subjected to SDS-PAGE. Ab208778 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 100 dilution and 1/10000 dilution respectively. Blots were developed with 800CW Goat anti Rabbit and 680CW Goat anti Mouse secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



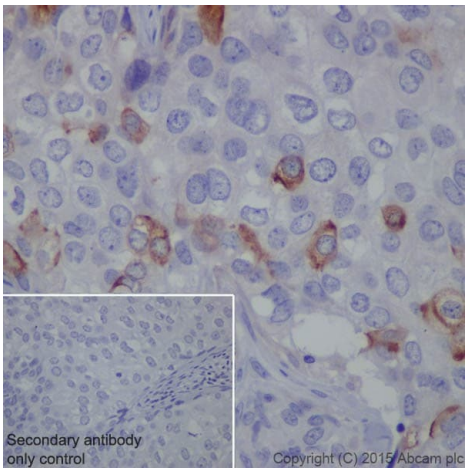
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling CD10 with **ab208778** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Surface membrane staining was found in the glomerular epithelium and proximal tubular cells of the Human kidney. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



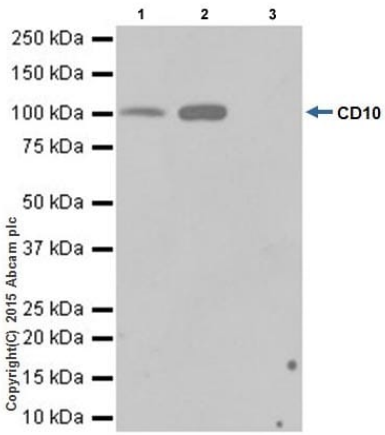
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue labeling CD10 with **ab208778** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Membrane staining was found in the subset cells of the Human breast cancer. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

CD10 was immunoprecipitated from 1mg of LNCaP (Human prostate cancer cell line) whole cell lysate with **ab208778** at 1/20 dilution.

Western blot was performed from the immunoprecipitate using **ab208778** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: LNCaP whole cell lysate, 10µg (Input).

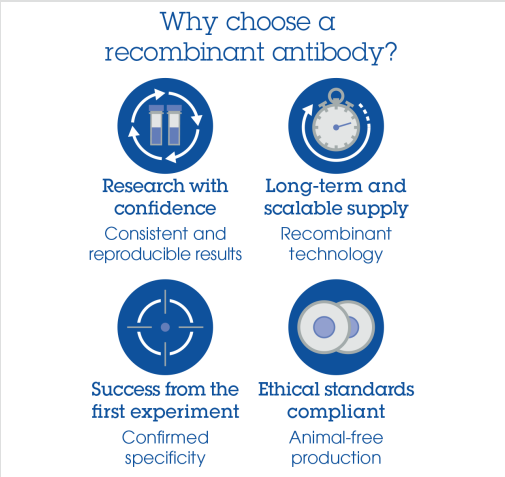
Lane 2: **ab208778** IP in LNCaP whole cell lysate.

Lane 3: Rabbit IgG,monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab208778** in LNCaP whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208778**).



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