abcam

Product datasheet

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

KO VALIDATED Recombinant RabMAb

3 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 aa 50-500. The exact sequence is proprietary. Database link: P08473
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 a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. 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. 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.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5904-110
Isotype	IgG

Applications

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

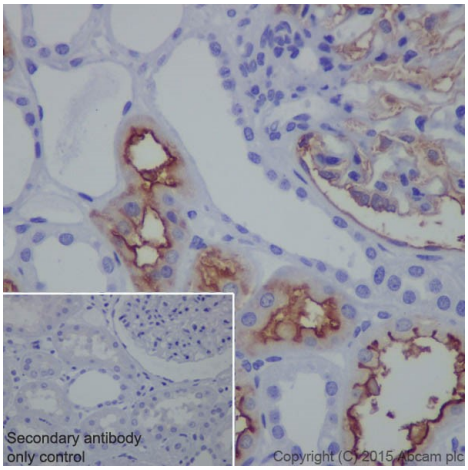
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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



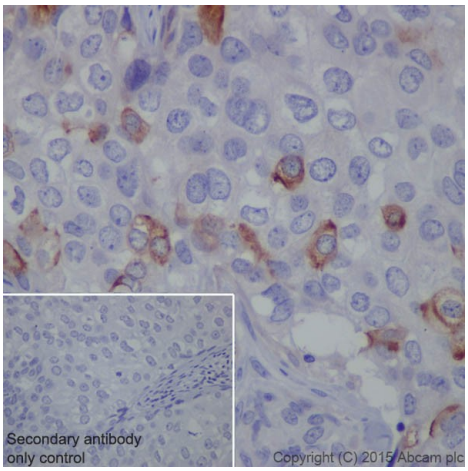
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

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.



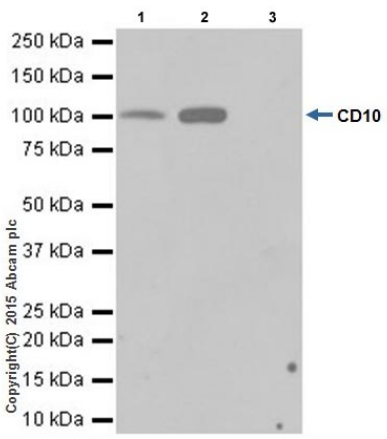
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [EPR5904-110] - Low endotoxin, Azide free (ab222225)

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).