

Anti-PAX5 antibody [EPR3730(2)] ab109443

リコンビナント **RabMAb**

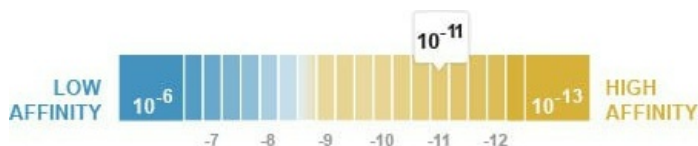
★★★★★ **4 Abreviews** **23 References** 画像数 20

製品の概要

製品名	Anti-PAX5 antibody [EPR3730(2)]
製品の詳細	Rabbit monoclonal [EPR3730(2)] to PAX5
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), ICC/IF, IP, ChIP, WB, IHC-P
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Ramos and Daudi cell lysates and human tonsil and mouse spleen tissue lysates. IHC-P: Human tonsil, hodgkin's lymphoma, spleen and diffuse B-cell lymphoma tissues. ICC/IF: Ramos cells. Flow Cyt (intra): Ramos cells. IP: Mouse spleen tissue lysate and Ramos cells. ChIP: Ramos cells
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K _D 値)	K _D = 4.45 x 10 ⁻¹¹ M



[Learn more about K_D](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3730(2)
アイソタイプ	IgG

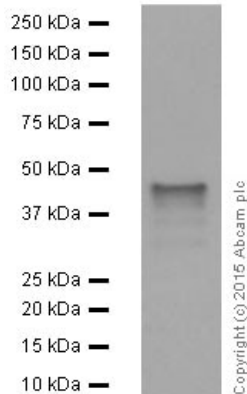
アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab109443の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30. For unpurified use at 1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/250. For unpurified use at 1/1000.
IP		1/20.
ChIP		Use at an assay dependent concentration.
WB		1/5000. Predicted molecular weight: 42 kDa. For unpurified use at 1/10000 - 1/50000.
IHC-P	★★★★★ (3)	1/5000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/250 - 1/500.

ターゲット情報

機能	May play an important role in B-cell differentiation as well as neural development and spermatogenesis. Involved in the regulation of the CD19 gene, a B-lymphoid-specific target gene.
関連疾患	A chromosomal aberration involving PAX5 is a cause of acute lymphoblastic leukemia. Translocation t(9;18)(p13;q11.2) with ZNF521. Translocation t(9;3)(p13;p14.1) with FOXP1. Translocation t(9;12)(p13;p13) with ETV6. Leukemia, acute lymphoblastic, 3
配列類似性	Contains 1 paired domain.
発生段階	Expressed at early B-cell differentiation, in the developing CNS and in adult testis.
翻訳後修飾	O-glycosylated.
細胞内局在	Nucleus.



Western blot - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/5000 dilution (purified) + Mouse spleen tissue lysate at 20 µg

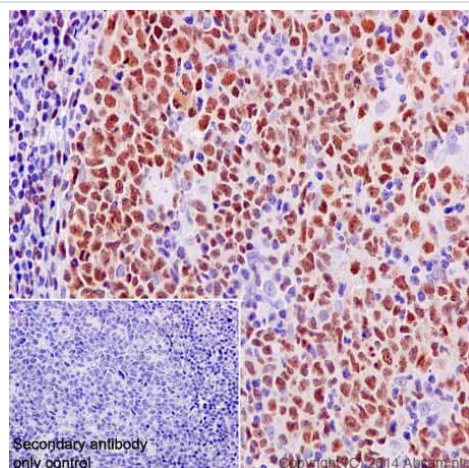
Secondary

Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 42 kDa

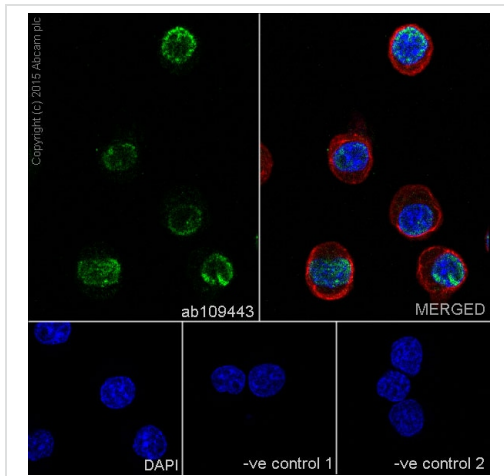
Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling PAX5 with purified ab109443 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

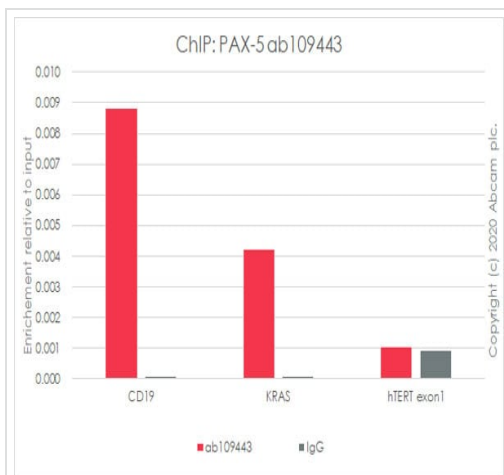


Immunocytochemistry/ Immunofluorescence - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Immunocytochemistry/Immunofluorescence analysis of Ramos cells labelling PAX5 with purified ab109443 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

Control 1: primary antibody (1/250) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



ChIP - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

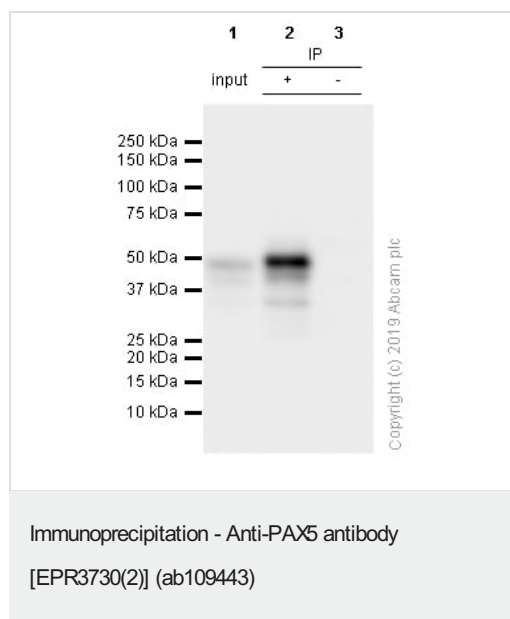
Chromatin was prepared from Ramos cells according to the Abcam Dual-X-ChIP protocol*. Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.

The ChIP was performed with 25 µg of chromatin, 5 µg of abzz (red), or 5 µg of rabbit normal IgG **ab172730** (gray) and 25 µl of Protein A/G Dynabeads. The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are from paper PMID:19806612

*<http://www.abcam.com/resources?>

keywords=X%20ChIP%20protocol



ab109443 (purified) at 1/20 dilution immunoprecipitating PAX5 in mouse spleen lysate 10 µg.

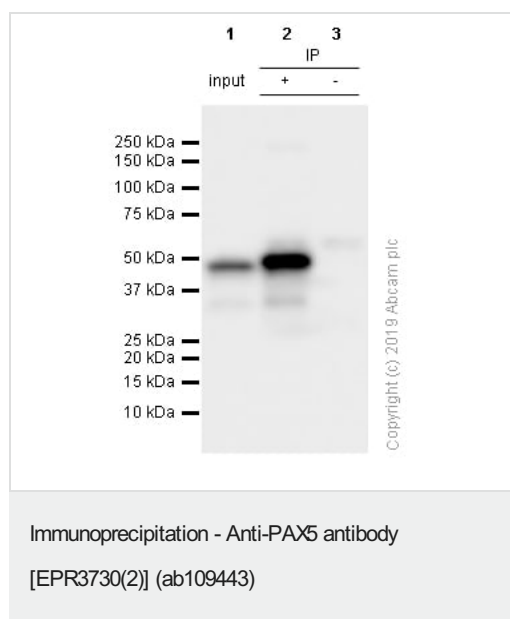
Lane 1 (input): mouse spleen lysate 10 µg

Lane 2 (+): ab109443 & mouse spleen lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109443 in mouse spleen lysate

For western blotting, ab109443 at 1/500 dilution (0.268 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

Blocking and diluting buffer: 5% NFDM /TBST.



ab109443 (purified) at 1/20 dilution immunoprecipitating PAX5 in Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10 µg.

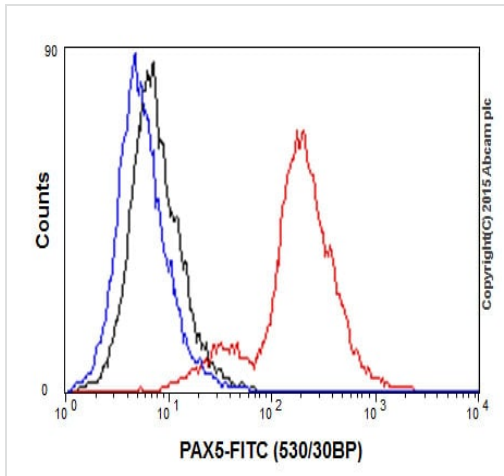
Lane 1 (input): Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10 µg

Lane 2 (+): ab109443 & Ramos whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109443 in Ramos whole cell lysate

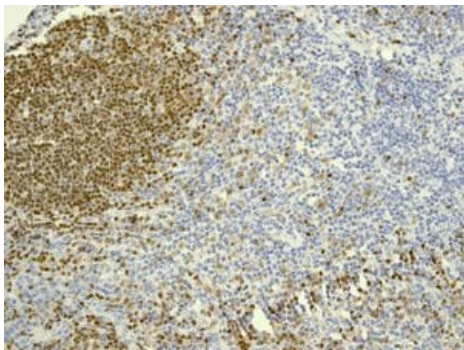
For western blotting, ab109443 at 1/500 dilution (0.268 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

Blocking and diluting buffer: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)

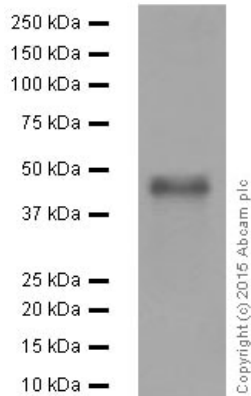
Intracellular Flow Cytometry analysis of Ramos cells labelling PAX5 with purified ab109443 at 1/30 (red). Cells were fixed with 80% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling PAX5 with unpurified ab109443.

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



Western blot - Anti-PAX5 antibody [EPR3730(2)]
(ab109443)

Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/5000 dilution
(purified) + Human tonsil tissue lysate at 20 µg

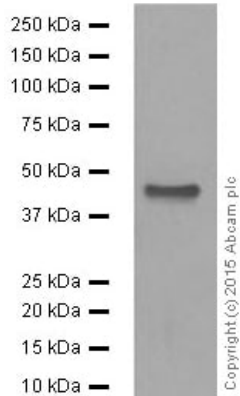
Secondary

Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/5000
dilution

Predicted band size: 42 kDa

Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-PAX5 antibody [EPR3730(2)]
(ab109443)

Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/20000 dilution
(purified) + Ramos cell lysate at 20 µg

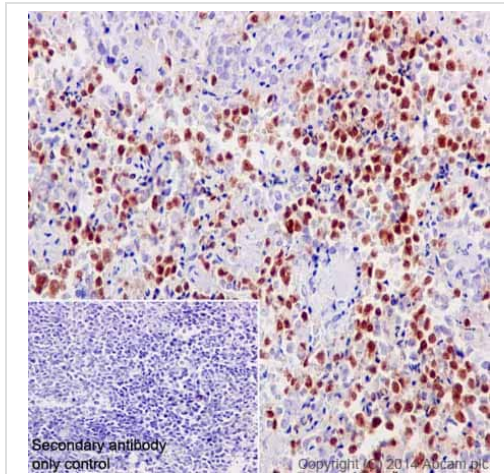
Secondary

Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000
dilution

Predicted band size: 42 kDa

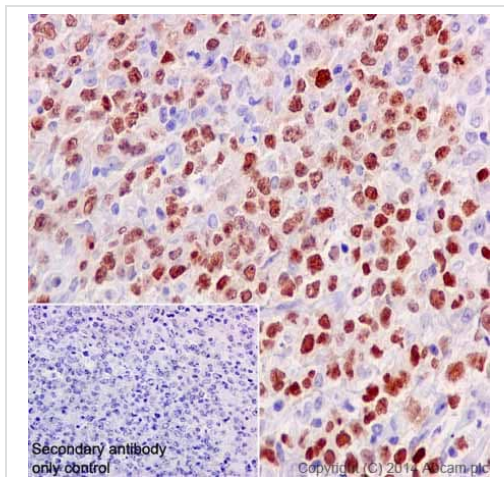
Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



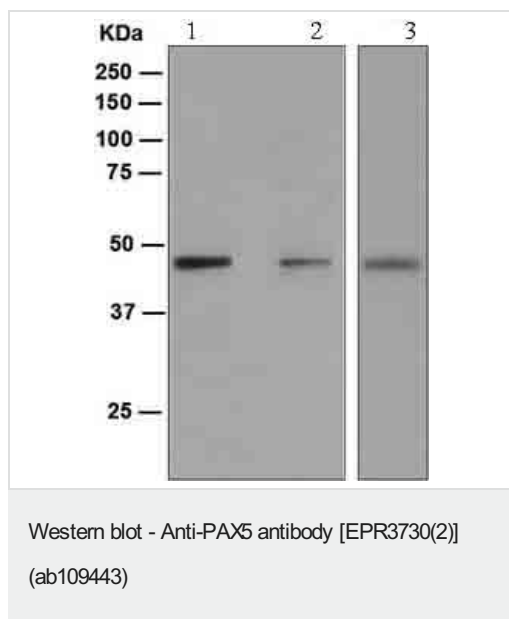
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat spleen tissue labelling PAX5 with purified ab109443 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human B-cell lymphoma tissue labelling PAX5 with purified ab109443 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



All lanes : Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/10000 dilution (unpurified)

Lane 1 : Ramos cell lysate

Lane 2 : Human tonsil tissue lysate

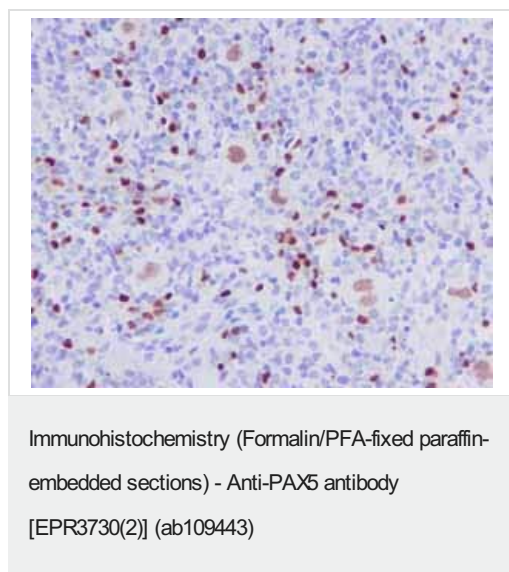
Lane 3 : Daudi cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

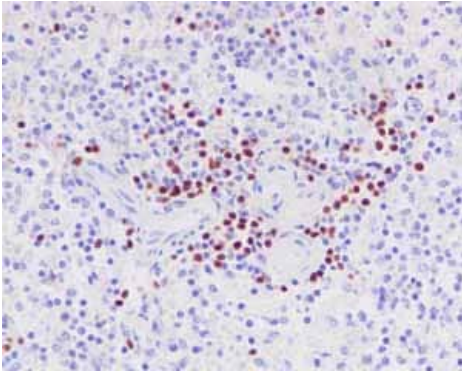
All lanes : Standard HRP labelled goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 42 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Hodgkin's lymphoma tissue labelling PAX5 with unpurified ab109443.

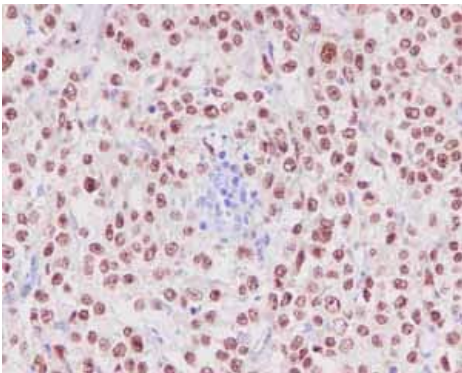
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human normal spleen tissue labelling PAX5 with unpurified ab109443.

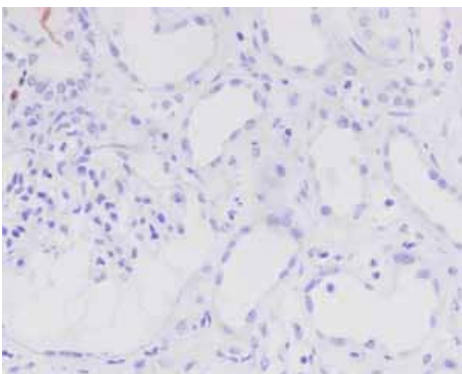
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human diffuse B-cell lymphoma tissue labelling PAX5 with unpurified ab109443.

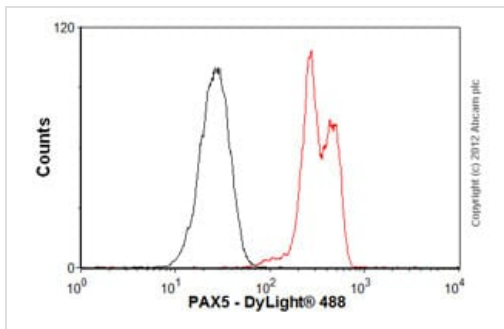
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

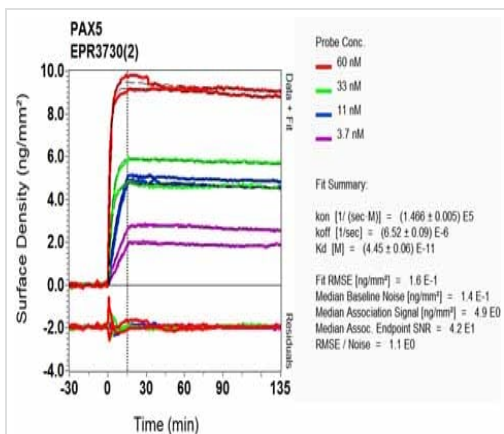
ab109443 showing negative staining in Normal human kidney tissue.

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



Flow Cytometry (Intracellular) - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)

Overlay histogram showing Ramos cells stained with unpurified ab109443 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (unpurified ab109443, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



OA-RD Scanning - Anti-PAX5 antibody [EPR3730(2)]
(ab109443)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-PAX5 antibody [EPR3730(2)] (ab109443)

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