abcam

Product datasheet

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

重组　RabMAb

★★★★★ **4 Abreviews**　　**23 References**　　20 图像

概述

产品名称	Anti-PAX5抗体[EPR3730(2)]
描述	兔单克隆抗体[EPR3730(2)] to PAX5
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), ICC/IF, IP, ChIP, WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	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
常规说明	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**.

性能

形式	Liquid
存放说明	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.
解离常数(K_D)	$K_D = 4.45 \times 10^{-11}$ M

10^{-11}

LOW AFFINITY 10^{-6} — 10^{-13} HIGH AFFINITY

-7　-8　-9　-10　-11　-12
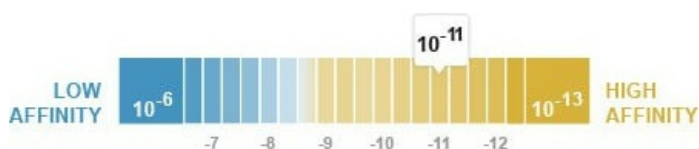
Learn more about K_D

存储溶液	pH: 7.20
	Preservative: 0.01% Sodium azide
	Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3730(2)
同种型	IgG

应用

The Abpromise guarantee   **Abpromise™承诺保证使用ab109443于以下的经测试应用**

"应用说明"部分 下显示的仅为**推荐的起始稀释度**；实际**最佳的稀释度/浓度应由使用者**检定。

应用	Ab评论	说明
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.**

靶标

功能	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.
疾病相关	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
序列相似性	Contains 1 paired domain.
发展阶段	Expressed at early B-cell differentiation, in the developing CNS and in adult testis.
翻译后修饰	O-glycosylated.
细胞定位	Nucleus.

图片

Western blot - Anti-PAX5 antibody [EPR3730(2)] (ab109443)
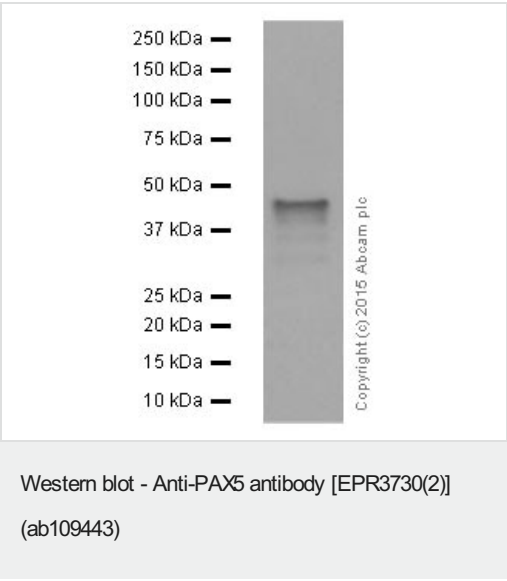
Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/5000 dilution (purified) + Mouse spleen tissue lysate at 20 µg
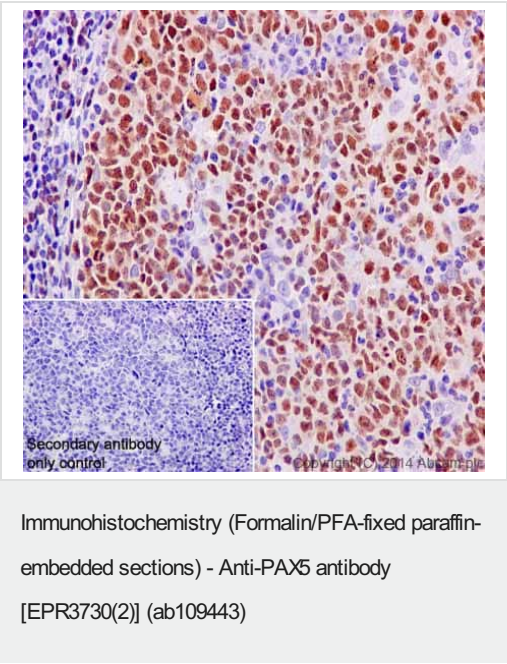
Secondary
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

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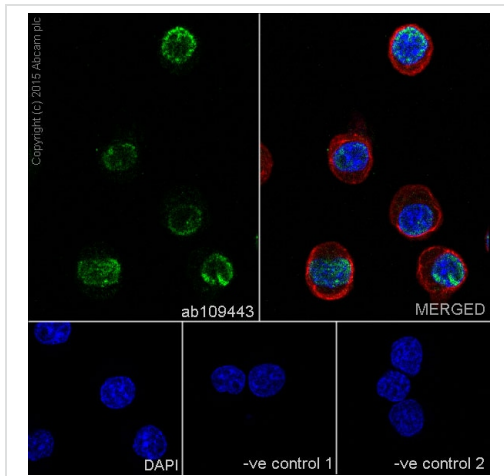
Immunocytochemistry/ Immunofluorescence - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

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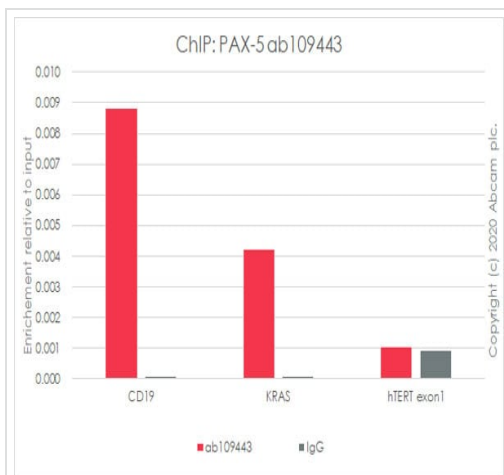
ChIP - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

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

Immunoprecipitation - Anti-PAX5 antibody
[EPR3730(2)] (ab109443)
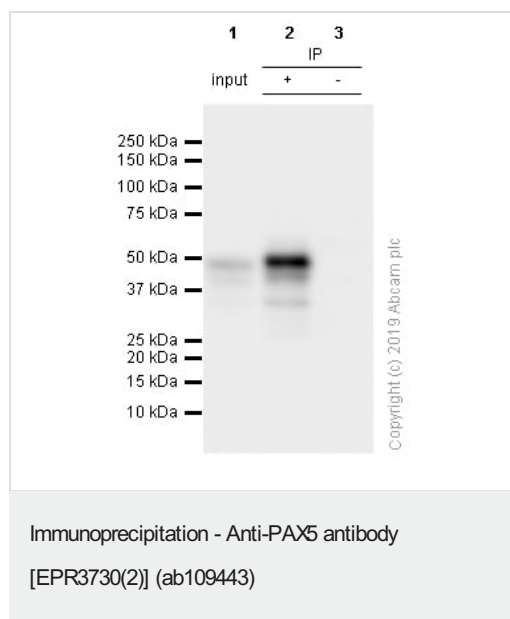
ab109443 (purified) at 1/20 dilution immunoprecipitating PAX5 in mouse spleen lysate 10 µg.
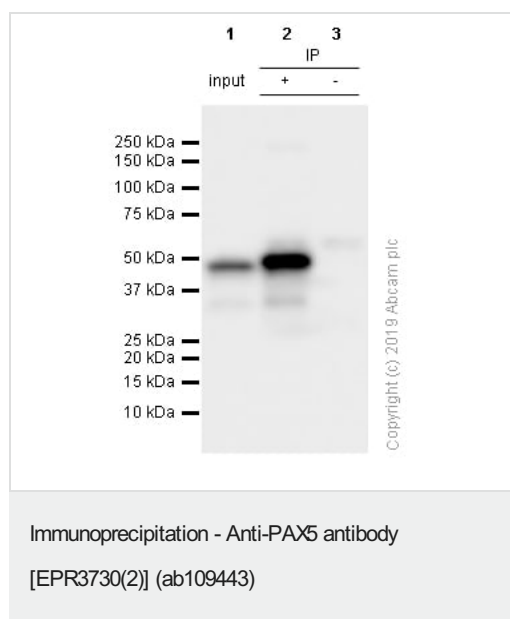
Lane 1 (input): mouse spleen lysate 10 µg

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.

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

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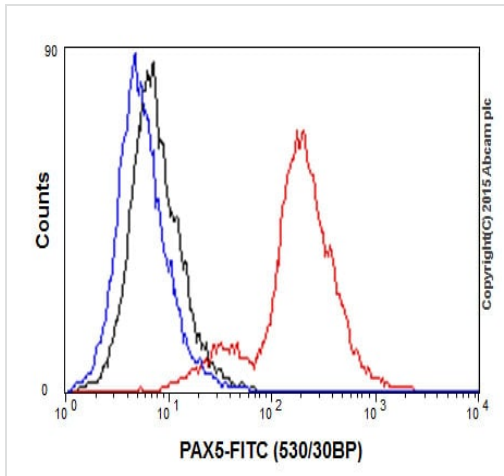
Flow Cytometry (Intracellular) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

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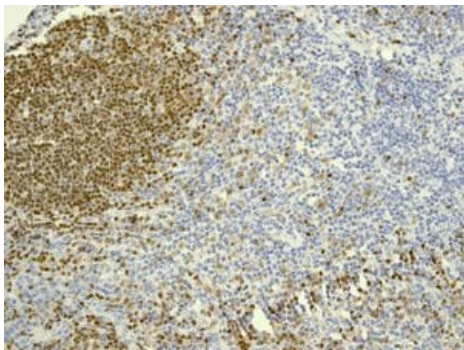
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

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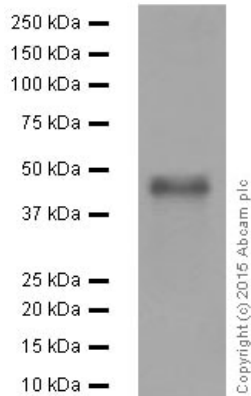
Western blot - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/5000 dilution (purified) + Human tonsil tissue lysate at 20 µg
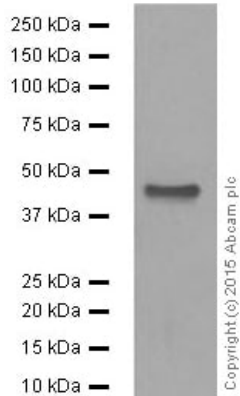
Secondary
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/5000 dilution

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)

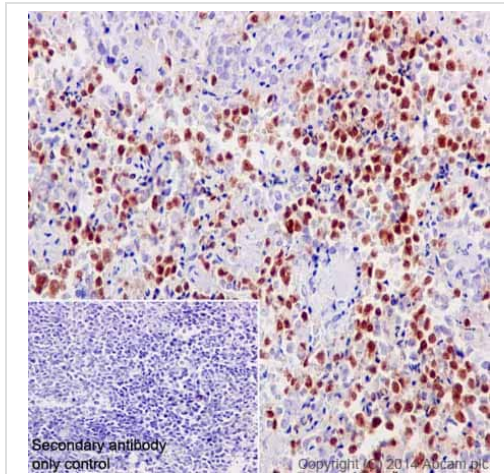Anti-PAX5 antibody [EPR3730(2)] (ab109443) at 1/20000 dilution (purified) + Ramos cell lysate at 20 µg

Secondary
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution
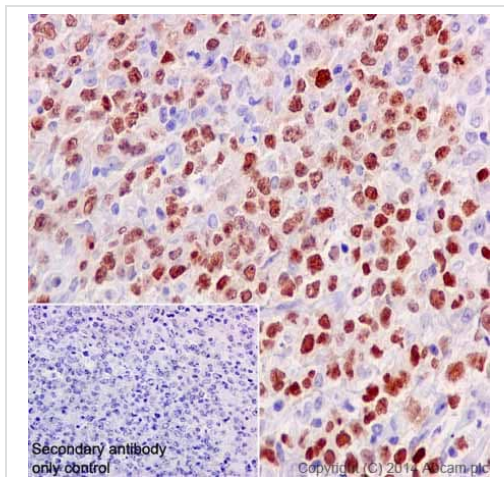
Predicted band size: 42 kDa
Observed band size: 45 kDa

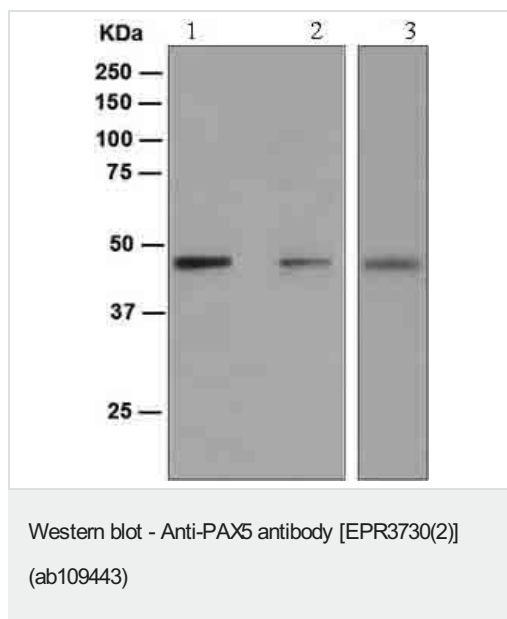Blocking and dilution buffer: 5% NFDM/TBST.

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.

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

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

Lane 1 : Ramos cell lysate
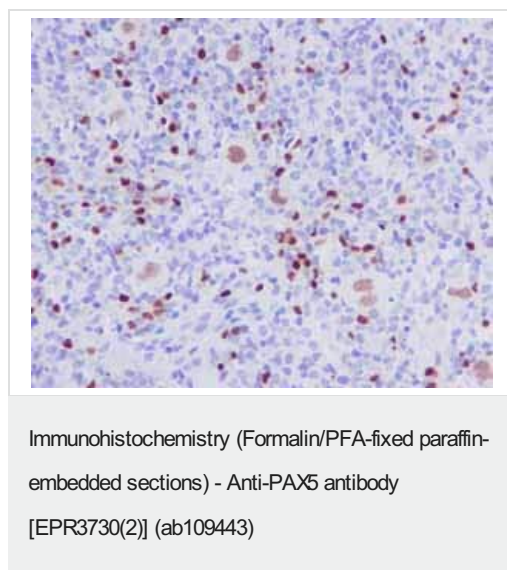
Lane 2 : Human tonsil tissue lysate

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Hodgkin's lymphoma tissue labelling PAX5 with unpurified ab109443.
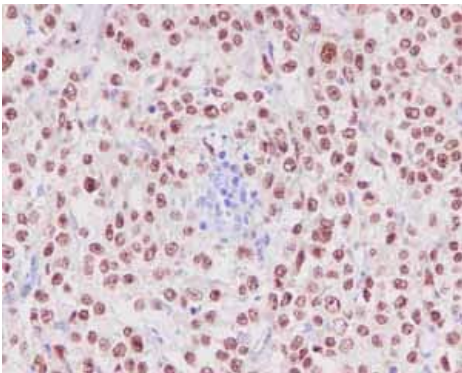
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
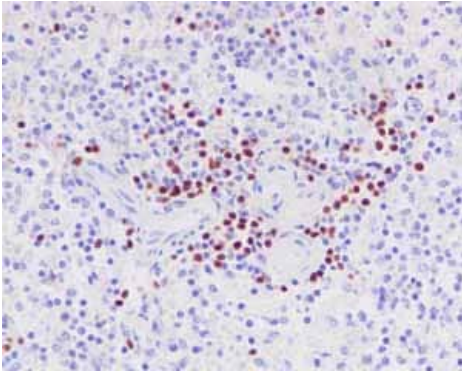
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human normal spleen tissue labelling PAX5 with unpurified ab109443.
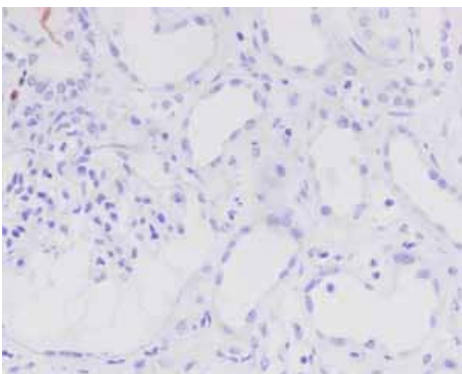
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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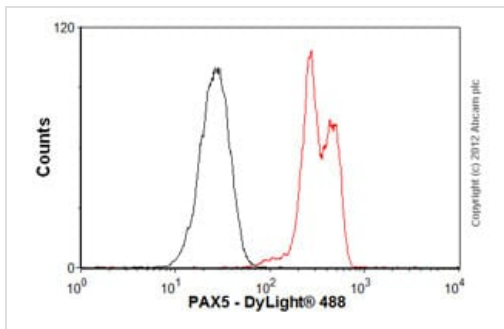
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.
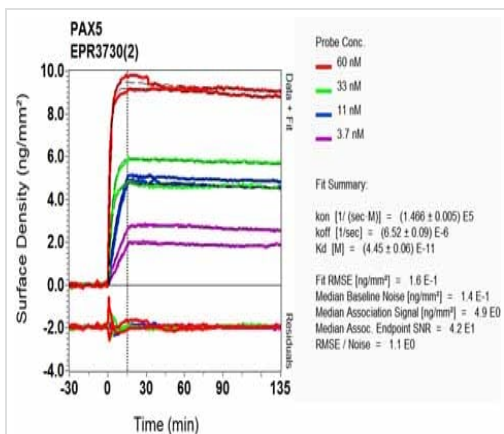
OI-RD Scanning - Anti-PAX5 antibody [EPR3730(2)] (ab109443)

Equilibrium disassociation 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)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors