

## Product datasheet

# Anti-PAX5 antibody [SP34] - BSA and Azide free ab237773

Recombinant RabMAb

8 Images

### Overview

<b>Product name</b>	Anti-PAX5 antibody [SP34] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [SP34] to PAX5 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, ChIP, Flow Cyt (Intra), IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Flow Cyt: Ramos cells. IHC-P: Human tonsil and B cell lymphoma and rat spleen tissues. IP: Ramos whole cell lysates. WB: Ramos, Daudi, Jurkat and U-937 cell lysates.
<b>General notes</b>	<p>ab237773 is the carrier-free version of <a href="#">ab227635</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <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>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SP34
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab237773 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
IP		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 42 kDa.

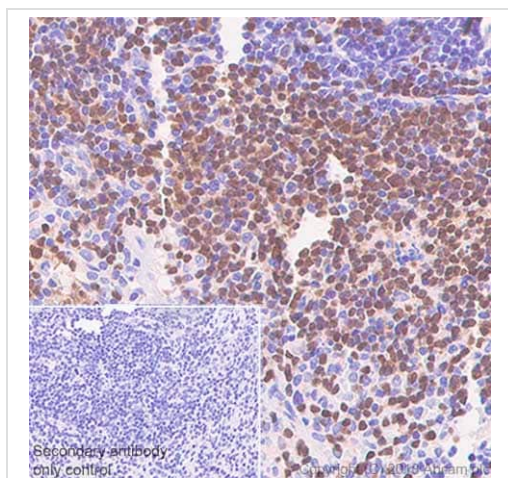
## Target

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<b>Function</b>	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.
<b>Involvement in disease</b>	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
<b>Sequence similarities</b>	Contains 1 paired domain.
<b>Developmental stage</b>	Expressed at early B-cell differentiation, in the developing CNS and in adult testis.
<b>Post-translational modifications</b>	O-glycosylated.
<b>Cellular localization</b>	Nucleus.

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## Images

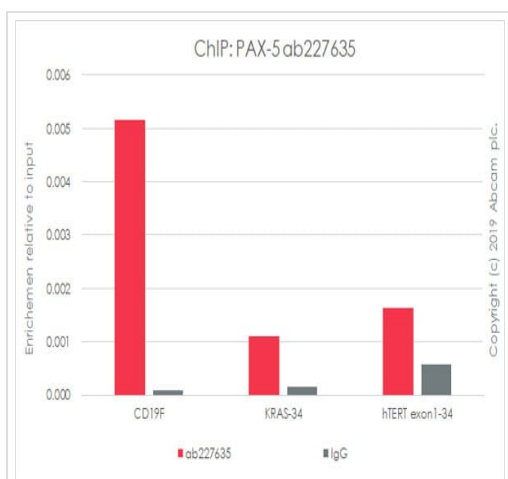


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat spleen tissue sections labeling PAX5 with **ab227635** at 1/50 dilution. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Hematoxylin was used as a counterstain. Nuclear staining on the rat spleen, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with **ab228136** for 30 mins at room temperature.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227737**).



ChIP - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

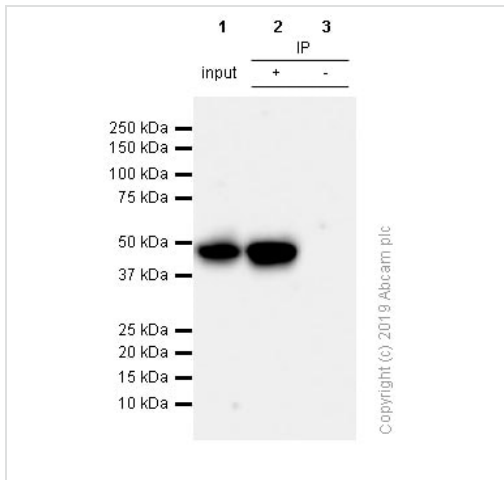
Chromatin was prepared from Ramos cells according to the Abcam Dual-X-ChIP protocol\*. Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.

The ChIP was performed with 25 µg of chromatin, 5 µg of **ab227635** (red), or 5 µg of rabbit normal IgG **ab172730** (gray) and 20 µl of Protein A/G sepharose beads. The immunoprecipitated DNA was quantified by real time PCR (Taqman approach for active and inactive loci, Sybr green approach for heterochromatic loci). Primers and probes are commercial primers from Paper (PMID: 19806612)

\*[http://www.abcam.com/resources?](http://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

keywords=X%20ChIP%20protocol

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide **ab227635**).



Immunoprecipitation - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

**ab227635** (purified) at 1/20 dilution immunoprecipitating PAX5 in Ramos whole cell lysate.

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

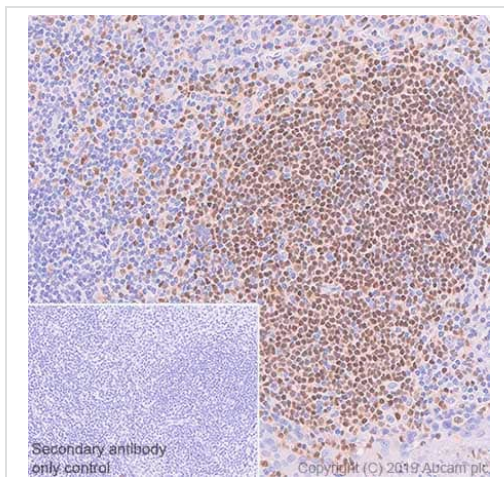
**Lane 2 (+):** **ab227635** & Ramos whole cell lysate

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of **ab227635** in Ramos whole cell lysate

For western blotting, **ab227648** (purified at 1/500 dilution (0.344 µg/ml) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution were used.

**Blocking and diluting buffer:** 5% NFDm /TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide **ab227635**).

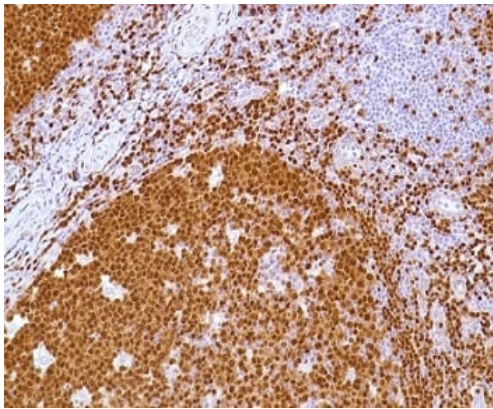


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling PAX5 with **ab227635** at 1/50 dilution. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Hematoxylin was used as a counterstain. Nuclear staining on the human tonsil, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with **ab228136** for 30 mins at room temperature.

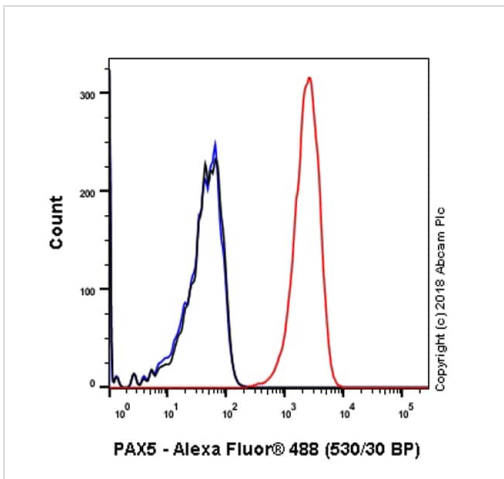
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227737**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

Immunohistochemical analysis of human tonsil tissue labeling PAX5 using [ab227635](#).

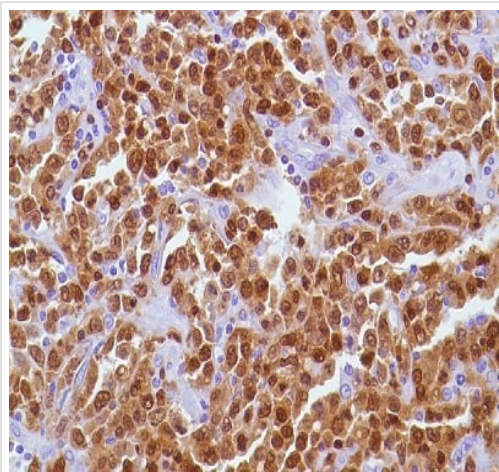
This data was developed using the same antibody clone in a different buffer formulation ([ab227635](#)).



Flow Cytometry - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

Flow Cytometry analysis of Ramos(Human Burkitt's lymphoma B lymphocyte) cells labeling PAX5 with purified [ab227635](#) at 1:20 dilution (8.6 µg/ml) Red. Cells were fixed with 4% paraformaldehyde . A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control - Unlabelled cells / Blue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227737](#)).



Immunohistochemical analysis of Human B cell lymphoma tissue staining PAX5 using **ab227635**.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227635**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-PAX5 antibody [SP34] - BSA and Azide free (ab237773)

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

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