

**PAX5 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1729a**

**Specification**

**PAX5 Antibody - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">O02548</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>45kDa KDa</b>

**Description**

This gene encodes a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. PAX proteins are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing CNS and testis and so the encoded protein may also play a role in neural development and spermatogenesis. This gene is located at 9p13, which is involved in t(9;14)(p13;q32) translocations recurring in small lymphocytic lymphomas of the plasmacytoid subtype, and in derived large-cell lymphomas. This translocation brings the potent E-mu enhancer of the IgH gene into close proximity of the PAX5 promoter, suggesting that the deregulation of transcription of this gene contributes to the pathogenesis of these lymphomas. Alternatively spliced transcript variants encoding different isoforms have been described but their biological validity has not been determined.

**Immunogen**

Purified recombinant fragment of human PAX5 (AA: 235-382) expressed in E. Coli.<br /><br />

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**PAX5 Antibody - Additional Information**

**Gene ID** 5079

**Other Names**

Paired box protein Pax-5, B-cell-specific transcription factor, BSAP, PAX5

**Dilution**

E~~1/10000

WB~~1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Precautions

PAX5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## PAX5 Antibody - Protein Information

**Name** PAX5

### Function

Transcription factor that plays an essential role in commitment of lymphoid progenitors to the B-lymphocyte lineage (PubMed:<a href="http://www.uniprot.org/citations/10811620" target="\_blank">10811620</a>, PubMed:<a href="http://www.uniprot.org/citations/27181361" target="\_blank">27181361</a>). Fulfills a dual role by repressing B-lineage inappropriate genes and simultaneously activating B-lineage- specific genes (PubMed:<a href="http://www.uniprot.org/citations/10811620" target="\_blank">10811620</a>, PubMed:<a href="http://www.uniprot.org/citations/27181361" target="\_blank">27181361</a>). In turn, regulates cell adhesion and migration, induces V(H)-to-D(H)J(H) recombination, facilitates pre-B-cell receptor signaling and promotes development to the mature B-cell stage (PubMed:<a href="http://www.uniprot.org/citations/32612238" target="\_blank">32612238</a>). Repression of the cohesin- release factor WAPL causes global changes of the chromosomal architecture in pro-B cells to facilitate the generation of a diverse antibody repertoire (PubMed:<a href="http://www.uniprot.org/citations/32612238" target="\_blank">32612238</a>).

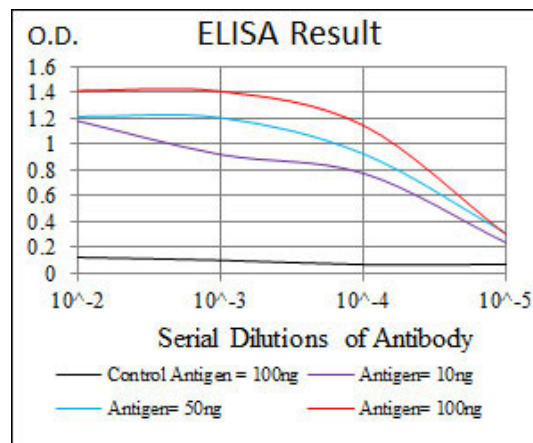
### Cellular Location

Nucleus.

## PAX5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



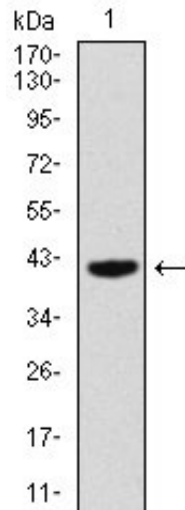


Figure 1: Western blot analysis using PAX5 mAb against human PAX5 recombinant protein. (Expected MW is 41.2 kDa)

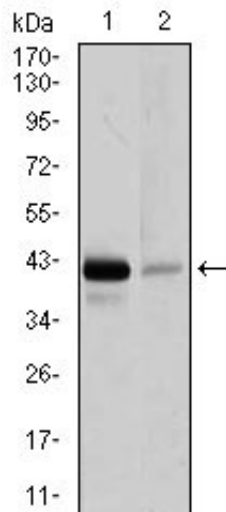


Figure 2: Western blot analysis using PAX5 mouse mAb against Raji (1), and EVC-304 (2) cell lysate.

### PAX5 Antibody - References

1. Blood. 2010 Apr 15;115(15):3089-97. 2. Br J Haematol. 2009 Nov;147(3):328-38.