SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PAX5 antibody

Catalog Number: SLM-60221R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	G7C4
Target:	PAX5
Immunogen:	KLH conjugated synthetic peptide derived from human PAX5
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat
Predicted MW.:	42kDa
Subcellular Location:	The nucleus
Background:	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. Paired box transcription factors 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

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	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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013] **Function:** 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. **Subunit:** Interacts with DAXX (By similarity). Binds DNA as a monomer. Binds TLE4. Interacts with ETS1, altering its DNA-binding properties. **Subcellular Location:** Nucleus. **Tissue Specificity:** Expressed at early B-cell differentiation, in the developing CNS and in adult testis. **Post-translational modifications:** O-glycosylated (Probable). DISEASE: Note=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. **Similarity:** Contains 1 paired domain. **Database links:** **Entrez Gene:** 5079 Human **Entrez Gene:** 18507 Mouse Omim: 167414 Human **SwissProt:** Q02548 Human **SwissProt:** Q02650 Mouse Homeodomain Proteins PAX-5 is a transcriptional repressor. It plays a key role in embryonic development and tumor growth. Its mutations are associated with the pathogenesis of certain tumors. The Pax-5 gene is an important transcription factor for B-cell generation and B-cell development and is a B-cell lineage-specific activating protein. During the early stages of B-cell development, Pax-5 can affect the expression of B-cell-specific genes such as CD19 and CD20. It is mainly distributed in pre-B cells and mature B cells. This protein plays an important role in the development of B cells and neurons.

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[VALIDATION IMAGES]

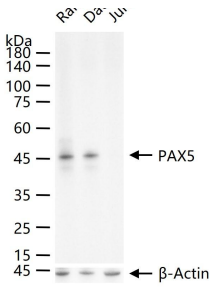


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with PAX5 monoclonal antibody, unconjugated (SLM-60221R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

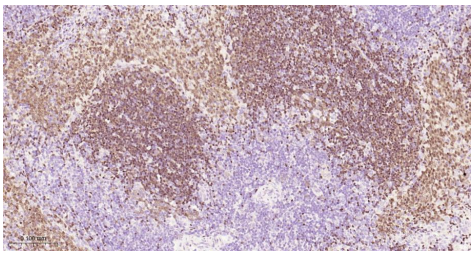


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

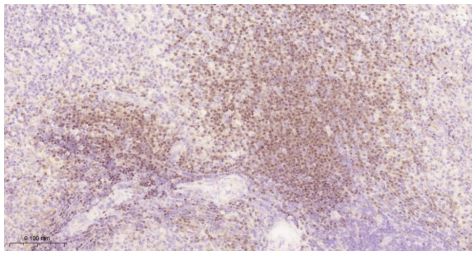


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

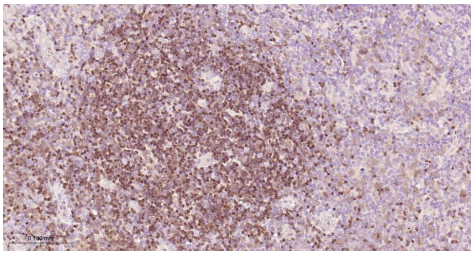


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

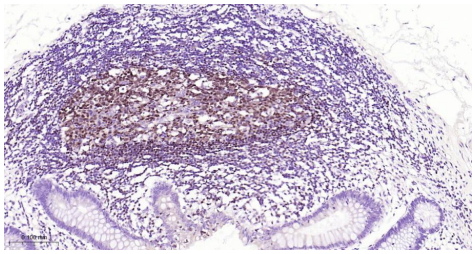


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

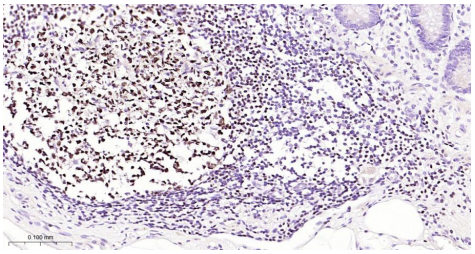


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human appendix; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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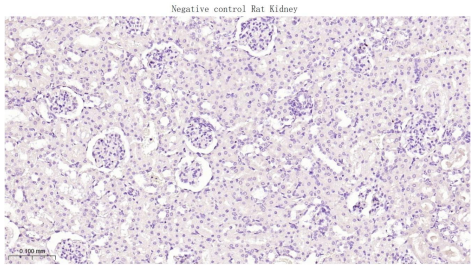


Figure 7. (Negative control) Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

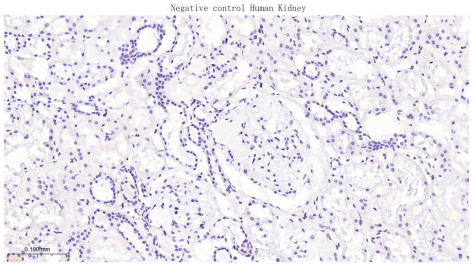


Figure 8. (Negative control) Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PAX5 Monoclonal Antibody, Unconjugated(SLM-60221R) at 1:100 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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