

ARG41682 anti-PAX5 antibody [6I4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [6I4] recognizes PAX5
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	6I4
Isotype	IgG2b
Target Name	PAX5
Species	Human
Immunogen	Recombinant protein corresponding to R217-A282 of Human PAX5.
Conjugation	Un-conjugated
Alternate Names	Paired box protein Pax-5; ALL3; B-cell-specific transcription factor; BSAP

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 45 kDa	

Properties

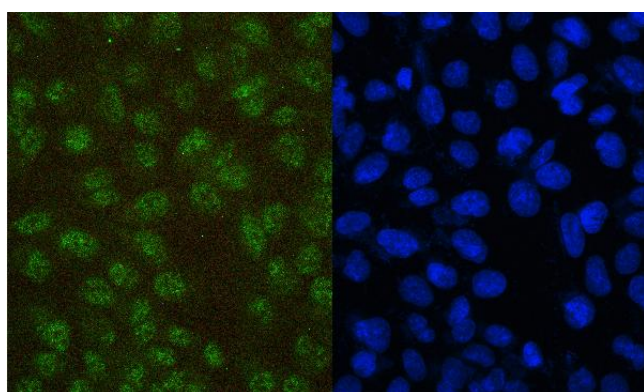
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

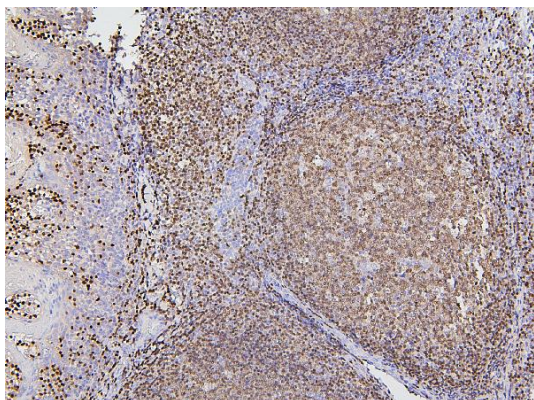
Gene Symbol	PAX5
Gene Full Name	paired box 5
Background	This gene encodes a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. Paired box transcription factors are important regulators 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 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. [UniProt]
Calculated Mw	42 kDa
PTM	O-glycosylated. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



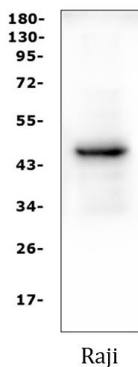
ARG41682 anti-PAX5 antibody [6I4] ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG41682 anti-PAX5 antibody [6I4] at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



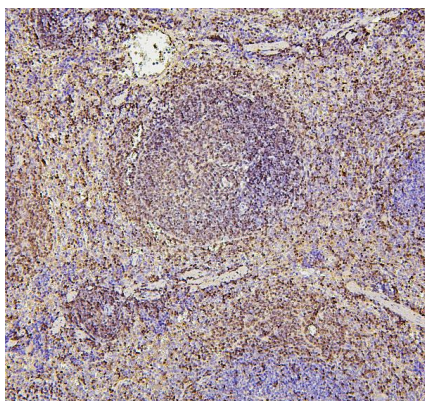
ARG41682 anti-PAX5 antibody [6I4] IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissues. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41682 anti-PAX5 antibody [6I4] at 1 µg/ml dilution, overnight at 4°C.



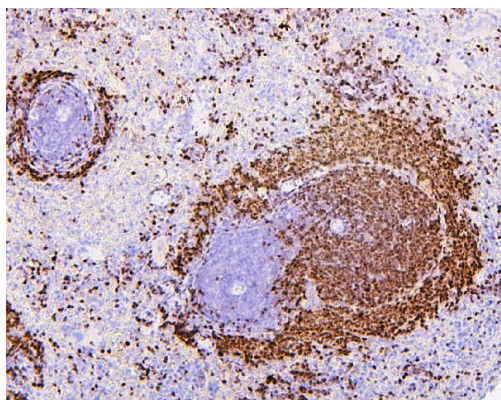
ARG41682 anti-PAX5 antibody [6I4] WB image

Western blot: 50 µg of sample under reducing conditions. Raji whole cell lysate stained with ARG41682 anti-PAX5 antibody [6I4] at 0.5 µg/ml dilution, overnight at 4°C.



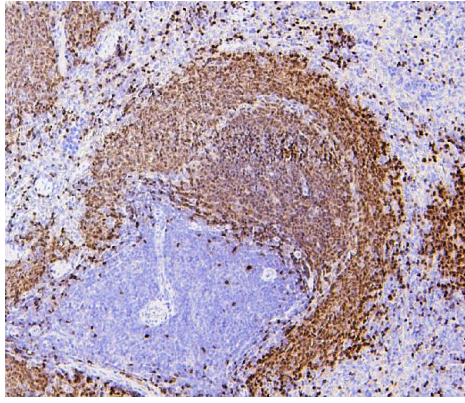
ARG41682 anti-PAX5 antibody [6I4] IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse spleen tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41682 anti-PAX5 antibody [6I4] at 1 µg/ml dilution, overnight at 4°C.



ARG41682 anti-PAX5 antibody [6I4] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat spleen tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41682 anti-PAX5 antibody [6I4] at 1 µg/ml dilution, overnight at 4°C.



ARG41682 anti-PAX5 antibody [6I4] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat spleen tissue.
Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41682 anti-PAX5 antibody [6I4] at 1 µg/ml dilution, overnight at 4°C.