

PAX5 Polyclonal Antibody

Catalog Number PA1-38418

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	ChIP assay (ChIP)	2.5 µg/10^6 cells
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50
Immunogen	Synthetic peptide derived from C-terminus of human Pax-5 protein	Immunoprecipitation (IP)	5 µg/mL
Conjugate	Unconjugated	Western Blot (WB)	1:500
Form	Liquid	Immunocytochemistry (ICC/IF)	1:250
Purification	Antigen affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.6, with 1% BSA		
Contains	0.1% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with chicken, canine, mouse based on sequence homology. Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is tonsil tissue.

Background/Target Information

PAX5 is a member of the paired box (PAX) family of transcription factors. The PAX proteins are important regulators in early development and alterations in the expression of their genes are thought to contribute to neoplastic transformation. PAX5 is the B-cell lineage specific activator protein (BSAP) that is expressed at early, but not late stages, of B-cell differentiation. Its expression has also been detected in developing CNS and testis, therefore, PAX5 may not only play an important role in B-cell differentiation, but also in neural development and spermatogenesis. Mutations in the gene can result in leukemia, acute lymphoblastic 3.

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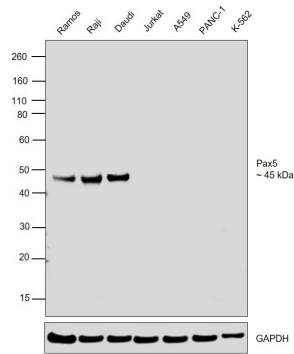
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Product Images For PAX5 Polyclonal Antibody

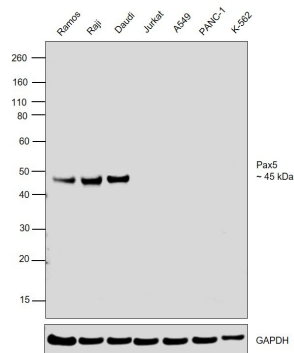
PAX5 Antibody (PA1-38418)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. The expression was observed in Ramos, Raji and Daudi and not in Jurkat, A549, PANC-1 and K-562 using PAX5 Polyclonal Antibody (Product # PA1-38418) in Western Blot. {RE}



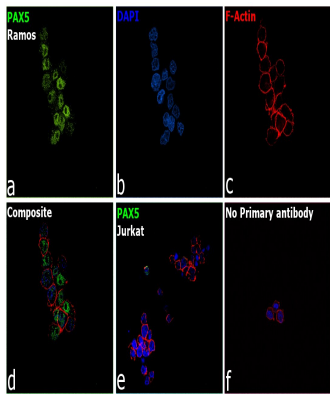
PAX5 Antibody (PA1-38418) in WB

Western blot was performed using Anti-PAX5 Polyclonal Antibody (Product # PA1-38418) and a 45 kDa band corresponding to PAX5 was observed in Ramos, Raji and Daudi and not in Jurkat, A549, PANC-1 and K-562. Modified whole cell extracts (1% SDS) (30 µg lysate) of Ramos (Lane 1), Raji (Lane 2), Daudi (Lane 3), Jurkat (Lane 4), A549 (Lane 5), PANC-1 (Lane 6) and K-562 (Lane 7) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



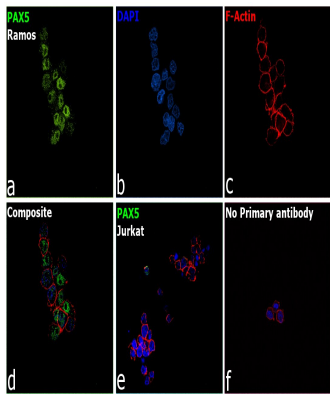
PAX5 Antibody (PA1-38418)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-PAX5 Polyclonal Antibody (Product # PA1-38418) shows increased expression of PAX5 in Ramos cell line when compared to Jurkat. {RE}



PAX5 Antibody (PA1-38418) in ICC/IF

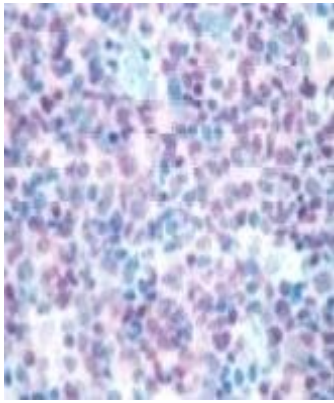
Immunofluorescence analysis of PAX5 was performed using 70% confluent log phase Ramos cells. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with PAX5 Polyclonal Antibody (Product # PA1-38418) at 1:250 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034, 1:2000 dilution) for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents Jurkat cells having no expression of PAX5. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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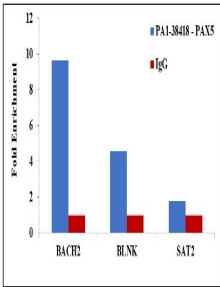
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PAX5 Antibody (PA1-38418) in IHC (P)
Immunohistochemical (Paraffin) analysis of PAX5 using anti-PAX5 polyclonal antibody (Product # PA1-38418) in human tonsil tissue.

PAX5 Antibody (PA1-38418) in ChIP

Chromatin Immunoprecipitation (ChIP) assay of endogenous PAX5 protein using Anti-PAX5 Antibody: ChIP was performed using Anti-PAX5 Rabbit Polyclonal Antibody (Product # PA1-38418, 5 µg) on sheared chromatin from Raji cells using the MAGnify ChIP System kit (Product # 49-2024). Normal Rabbit IgG was used as a negative IP control. The purified DNA was analyzed by qPCR using primers binding to BACH2 and BLNK promoter and SAT2 satellite repeats. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.



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