

Basic Information

Product Name	Anti-BSAP/PAX5 Antibody (Clone#6I4)	
Gene Name	PAX5	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human PAX5 recombinant protein (Position: R217-A282). Human PAX5 shares 100% and 98.5% amino acid (aa) sequence identity with mouse and rat PAX5, respectively.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	45 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry in fixed cells: 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Paired box protein Pax-5 is a protein that in humans is encoded by the PAX5 gene. The PAX5 gene is 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 domain, known as the paired box. The PAX proteins are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. The PAX5 gene encodes 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 gene product may not only play an important role in B-cell differentiation, but also in neural development and spermatogenesis.

Reference

Anti-BSAP/PAX5 Antibody (Clone#6I4)被引用在1文献中。

Selected Validation Data

KDa

180-

130-

95-

72-

55-

43-

34-

26-

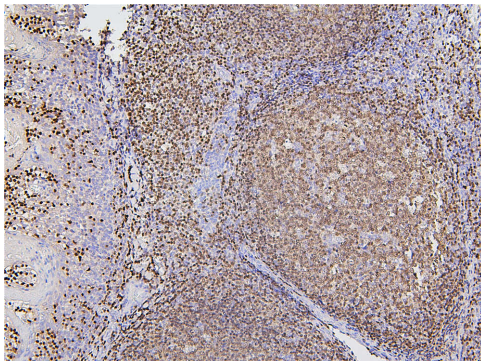
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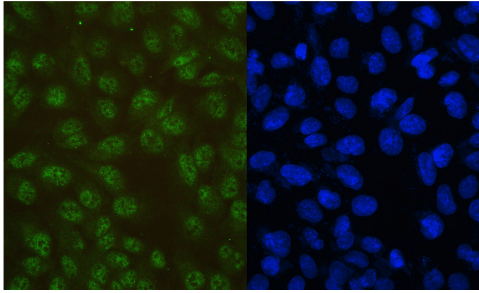
Western blot analysis of BSAP/PAX5 using anti-BSAP/PAX5 antibody (M00669-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Raji whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-BSAP/PAX5 antigen affinity purified monoclonal antibody (M00669-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BSAP/PAX5 at approximately 45 kDa. The expected band size for BSAP/PAX5 is at 42 kDa.



IHC analysis of BSAP/PAX5 using anti-BSAP/PAX5 antibody (M00669-2). BSAP/PAX5 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-BSAP/PAX5 Antibody (M00669-2) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of PAX5 using anti- PAX5 antibody (M00669-2)

PAX5 was detected in immunocytochemical section of U20S cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/mL mouse anti- PAX5 Antibody (M00669-2) overnight at 4°C. DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.