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Goat Anti-PAX5 / BSAP Antibody
Peptide-affinity purified goat antibody
Catalog # AF1792a

Specification

Goat Anti-PAX5 / BSAP Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q02548
Other Accession	NP_057953, 5079, 18507 (mouse)
Reactivity	**Human**
Predicted	**Mouse**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**42149**

Goat Anti-PAX5 / BSAP Antibody - Additional Information

Gene ID 5079

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

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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
Goat Anti-PAX5 / BSAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PAX5 / BSAP Antibody - Protein Information

Name PAX5

Function
Transcription factor that plays an essential role in commitment of lymphoid progenitors to the B-lymphocyte lineage (PubMed:10811620, PubMed:27181361). Fulfills a dual role by repressing B-lineage inappropriate genes and simultaneously activating B-lineage- specific genes (PubMed:10811620, PubMed:<a

href="http://www.uniprot.org/citations/27181361" target="_blank">27181361). 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:32612238). 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:32612238).

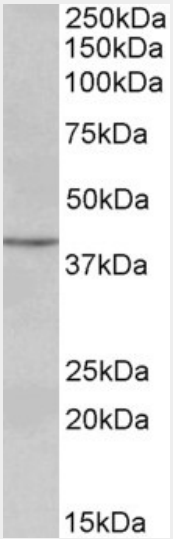
Cellular Location
Nucleus.

Goat Anti-PAX5 / BSAP Antibody - Protocols

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

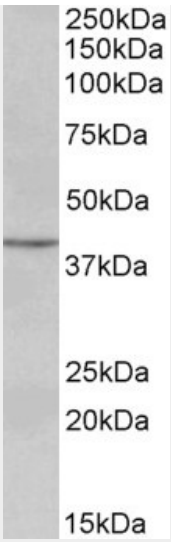
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-PAX5 / BSAP Antibody - Images

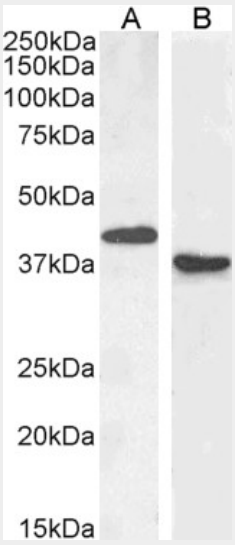


AF1792a (0.3 µg/ml) staining of Human Lymph lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

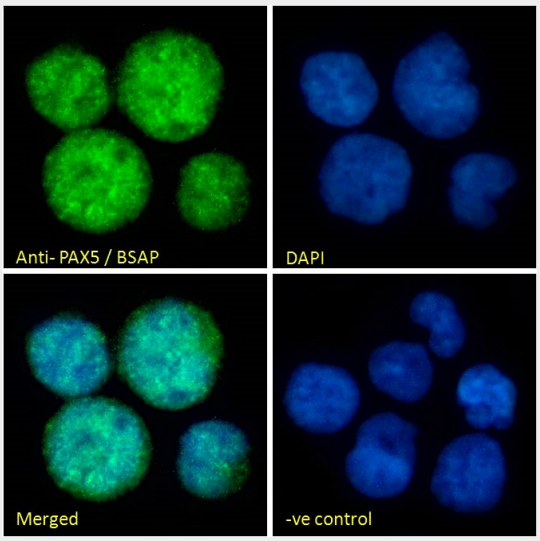
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EB05566 (0.3µg/ml) staining of Human Lymph lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB05566 (1µg/ml) staining of Mouse (A) and (0.3ug/ml) Rat (B) Spleen lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescen



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EB05566 Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. The nuclear stain is DAPI (blu

Goat Anti-PAX5 / BSAP Antibody - 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. 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.

Goat Anti-PAX5 / BSAP Antibody - References

Genomic profiling of adult acute lymphoblastic leukemia by single nucleotide polymorphism oligonucleotide microarray and comparison to pediatric acute lymphoblastic leukemia. Okamoto R, et al. Haematologica, 2010 Sep. PMID 20435627.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
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Wide diversity of PAX5 alterations in B-ALL: a Groupe Francophone de Cytogenetique Hematologique study. Coyaud E, et al. Blood, 2010 Apr 15. PMID 20160164.