

Rabbit PU.1/SPI1 Polyclonal Antibody | anti-SPI1 antibody

Anti-PU.1/SPI1 Antibody Picoband

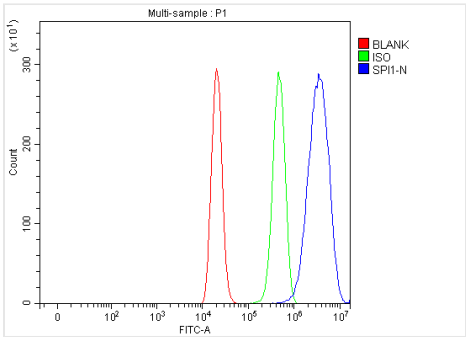
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126110	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PU.1/SPI1; Polyclonal Antibody; Anti-PU.1/SPI1 Antibody Picoband; anti-SPI1 antibody

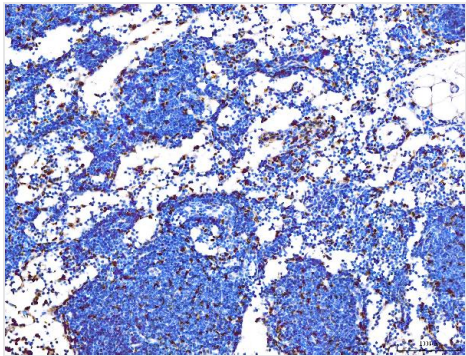
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Mouse Nt5e
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SPI1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	0.156 ng/ml - 10 ng/ml
Sensitivity	<20 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



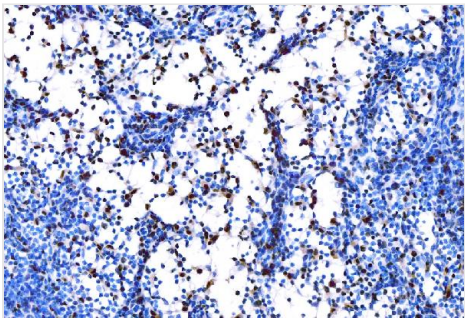
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of THP-1 cells using anti-PU.1/SPI1 antibody (AAA126110).Overlay histogram showing THP-1 cells stained with AAA126110 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PU.1/SPI1 Antibody (AAA126110, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



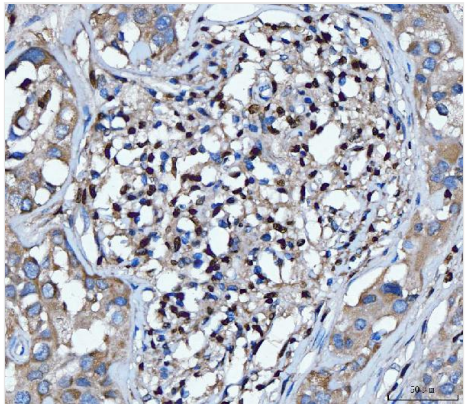
IHC (Immunohistochemisry)

Figure 3. IHC analysis of PU.1/SPI1 using anti-PU.1/SPI1 antibody (AAA126110).PU.1/SPI1 was detected in a paraffin-embedded section of mouse lymph gland tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PU.1/SPI1 Antibody (AAA126110) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



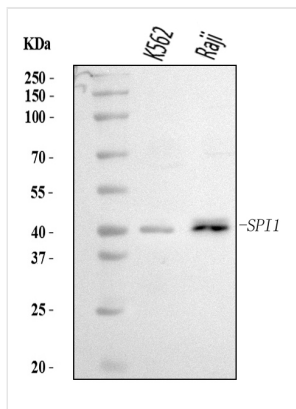
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PU.1/SPI1 using anti-PU.1/SPI1 antibody (AAA126110).PU.1/SPI1 was detected in a paraffin-embedded section of rat lymph gland tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PU.1/SPI1 Antibody (AAA126110) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PU.1/SPI1 using anti-PU.1/SPI1 antibody (AAA126110).PU.1/SPI1 was detected in a paraffin-embedded section of human lymphoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PU.1/SPI1 Antibody (AAA126110) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PU.1/SPI1 using anti-PU.1/SPI1 antibody (AAA126110). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human Raji whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PU.1/SPI1 antigen affinity purified polyclonal antibody (#AAA126110) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PU.1/SPI1 at approximately 40 kDa. The expected band size for PU.1/SPI1 is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SPI1 antibody	Background: 5'-nucleotidase (5'-NT), also known as ecto-5'-nucleotidase or CD73 (Cluster of Differentiation 73), is an enzyme that in humans is encoded by the NT5E gene. Ecto-5-prime-nucleotidase catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. And the enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5 occurs in a variety of immunodeficiency diseases. Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from ectoNT5 by their substrate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorganic phosphate. Rare allelic variants are associated with a syndrome of adult-onset calcification of joints and arteries (CALJA) affecting the iliac, femoral, and tibial arteries reducing circulation in the legs and the joints of the hands and feet causing pain. Principle of the Assay: The Mouse Nt5e Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Nt5e with a 96-well strip plate that is pre-coated with antibody specific for Nt5e. The detection antibody is a biotinylated antibody specific for Nt5e. The capture antibody is a monoclonal antibody from rat and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Nt5e with immunogen: Expression system for standard: CHO; Immunogen sequence: W29-S551. The kit is analytically validated with ready-to-use reagents. To measure Mouse Nt5e, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Nt5e in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Nt5e in the sample.
Product Categories/Family for anti-SPI1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	124028521
NCBI GeneID	6688

NCBI Accession #	NP_001074016.1
NCBI GenBank Nucleotide #	NM_001080547.1
UniProt Accession #	P17947
Molecular Weight	31,083 Da
NCBI Official Full Name	transcription factor PU.1 isoform 1
NCBI Official Synonym Full Names	spleen focus forming virus (SFFV) proviral integration oncogene spi1
NCBI Official Symbol	SPI1
NCBI Official Synonym Symbols	OF; PU.1; SFPI1; SPI-1; SPI-A
NCBI Protein Information	transcription factor PU.1; SPI-1 proto-oncogene; 31 kDa transforming protein; 31 kDa-transforming protein; hematopoietic transcription factor PU.1
UniProt Protein Name	Transcription factor PU.1
UniProt Gene Name	SPI1
UniProt Entry Name	SPI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pu1-spi1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126110>