Datasheet for ABIN6940631

anti-SPI1 antibody (AA 16-170)

9 Images

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Overview

Quantity:	100 µg
Target:	SPI1
Binding Specificity:	AA 16-170
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SPI1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa 16-170) of human PU.1 protein (Exact sequence is proprietary)
Clone:	PU1-2146
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	SPI1
Alternative Name:	SPI1 (SPI1 Products)

Target Details

Background:	PU.1 is a member of the ETS family of transcription factors and is important for normal B-cell development. It is expressed in the myeloid lineage and in immature as well as mature B-lymphocytes, with the exception of plasma cells. PU.1 is expressed in germinal center B-cells and mantle B-cells. Various lymphomas are also positive for this marker. It is essential during early B-cell differentiation. The absence of PU.1 results in total block of B-cell development at the pre-pro stage. PU.1 plays a key role in normal myeloid differentiation, and regulates the expression of immunoglobulin and other genes that are important for B-cell development.
Molecular Weight:	40kDa
Gene ID:	6688
UniProt:	P17947
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Positive Control: Ramos, K-562 cells, THP-1 cells. Lymph Node, Spleen, Hodgkin's Lymphoma, Colon Carcinoma. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

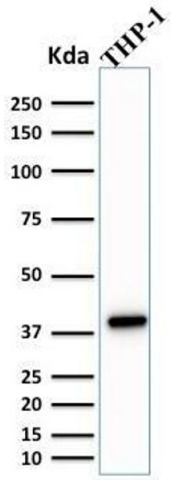
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Handling

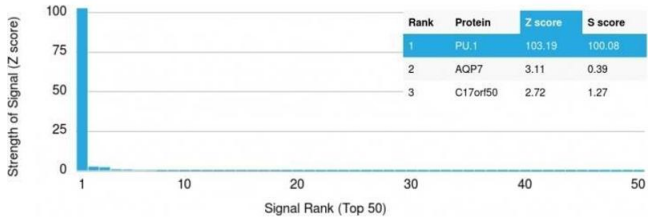
Expiry Date:	24 months

Images



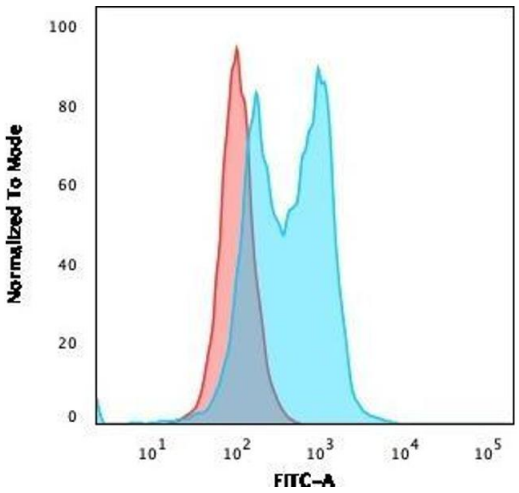
Western Blotting

Image 1. Western Blot Analysis of THP-1 cell lysate using PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2446). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometry

Image 3. Flow Cytometric Analysis of PFA-fixed Ramos cells. PU.1-Monospecific Mouse MAb (PU1/2146) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the product details page for more images. Overall 9 images are available for ABIN6940631.