

### 36-3186: Anti-PU.1 (SPI-1) (B-Cell Marker) Monoclonal Antibody(Clone: PU1/2146)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PU1/2146
<b>Application :</b>	FACS,IF,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	SPI1
<b>Gene ID :</b>	6688
<b>Uniprot ID :</b>	P17947
<b>Alternative Name :</b>	Transcription Factor spi1; 31kDa Transforming Protein; Hematopoietic Transcription Factor PU.1; SFPI1; SPI1; SPIA; Spleen focus forming virus (SFFV) proviral integration oncogene spi1
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant fragment (around aa 16-170) of human PU.1 protein (Exact sequence is proprietary)

#### Description

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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	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.

#### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); ,Western Blot (1-2ug/ml);,Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),

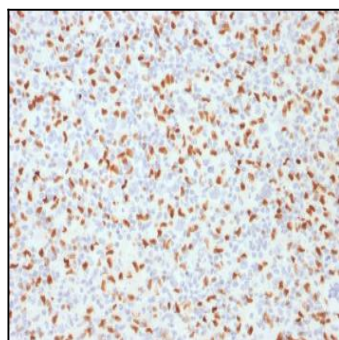


Fig. 1: Formalin-fixed, paraffin-embedded human Hodgkin's Lymphoma stained with PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).

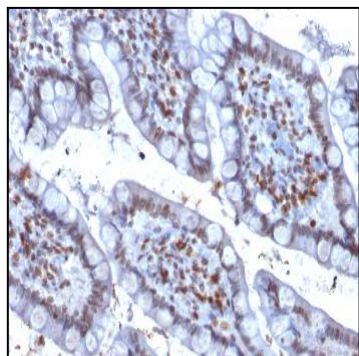


Fig. 2: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).

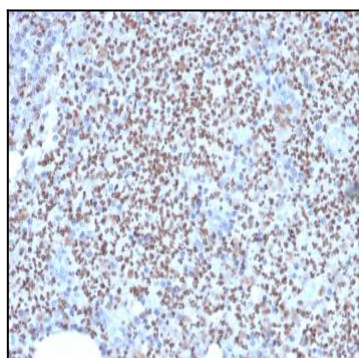


Fig. 3: Formalin-fixed, paraffin-embedded human Lymph Node stained with PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).

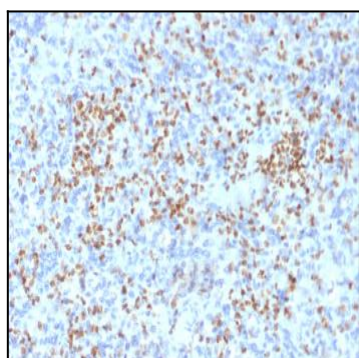


Fig. 4: Formalin-fixed, paraffin-embedded human Spleen stained with PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).

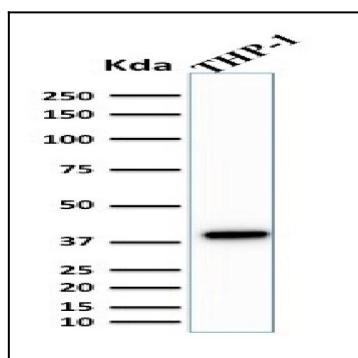


Fig. 5: Western Blot Analysis of THP-1 cell lysate using PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146).

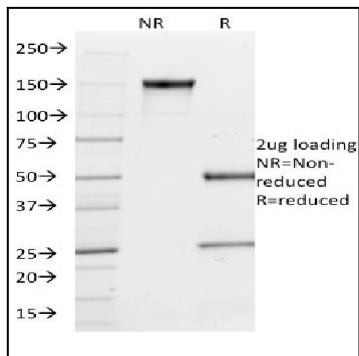


Fig. 6: SDS-PAGE Analysis Purified PU.1-Monospecific Mouse Monoclonal Antibody (PU1/2146). Confirmation of Integrity and Purity of Antibody.

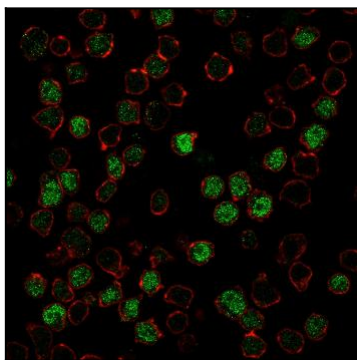


Fig. 7: Immunofluorescence Analysis of PFA-fixed Ramos cells labeling PU.1 with PU.1-Monospecific Mouse MAb (PU1/2146) followed by Goat anti-Mouse IgG-CF488 (Green).  
Membrane is labeled with Phalloidin (Red).