

Recombinant Anti-PU.1 Rabbit mAb

Catalog # AP95224

Product Information

Application	WB, IHC, FC
Primary Accession	P17947
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	31083

Additional Information

Gene ID	6688
Other Names	Transcription factor PU.1; 31 kDa-transforming protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human PU.1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SPI1
Function	Pioneer transcription factor, which controls hematopoietic cell fate by decompacting stem cell heterochromatin and allowing other transcription factors to enter otherwise inaccessible genomic sites. Once in open chromatin, can directly control gene expression by binding genetic regulatory elements and can also more broadly influence transcription by recruiting transcription factors, such as interferon regulatory factors (IRFs), to otherwise inaccessible genomic regions (PubMed:23658224, PubMed:33951726). Transcriptionally activates genes important for myeloid and lymphoid lineages, such as CSF1R (By similarity). Transcriptional activation from certain promoters, possibly containing low affinity binding sites, is achieved cooperatively with other transcription factors. FCER1A transactivation is achieved in cooperation with GATA1 (By similarity). May be particularly important for the pro- to pre-B cell transition (PubMed:33951726). Binds (via the ETS domain) onto the purine-rich DNA core sequence 5'-GAGGAA-3', also known as the PU-box (PubMed:33951726). In vitro can bind RNA and interfere with pre-mRNA splicing (By similarity).

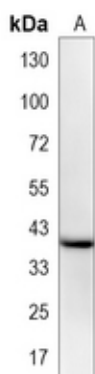
Cellular Location

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00237,
ECO:0000269 | PubMed:33951726}

Tissue Location

In the bone marrow, concentrated in hematopoietic stem cell, lymphoid progenitor, myeloid lineage (granulocyte macrophage progenitors, classical dendritic cells, monocytes) and B-cell clusters Among B-cells, predominantly expressed in pre-B1 cells (PubMed:33951726). Expressed in germinal center B-cells (PubMed:23166356).

Images



Western blot analysis of PU.1 expression in Daudi (A) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 42 kD)

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