Best Tools for immunology Research

PU.1 Polyclonal Antibody

Catalog No :	YT3906
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	PU.1
Fields :	>>Osteoclast differentiation;>>Human T-cell leukemia virus 1 infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Acute myeloid leukemia
Gene Name :	SPI1
Protein Name :	Transcription factor PU.1
Human Gene Id :	6688
Human Swiss Prot No :	P17947
Mouse Gene Id :	20375
Mouse Swiss Prot No :	P17433
Rat Gene Id :	366126
Rat Swiss Prot No :	Q6BDS1
Immunogen :	The antiserum was produced against synthesized peptide derived from human SPI1. AA range:181-230
Specificity :	PU.1 Polyclonal Antibody detects endogenous levels of PU.1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not

yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 32kD

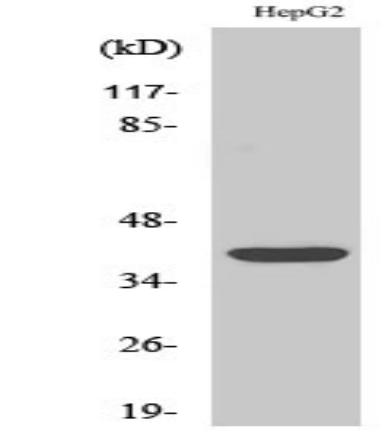
Cell Pathway : Pathways in cancer;Acute myeloid leukemia;

Background : This gene encodes an ETS-domain transcription factor that activates gene expression during myeloid and B-lymphoid cell development. The nuclear protein binds to a purine-rich sequence known as the PU-box found near the promoters of target genes, and regulates their expression in coordination with other transcription factors and cofactors. The protein can also regulate alternative splicing of target genes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

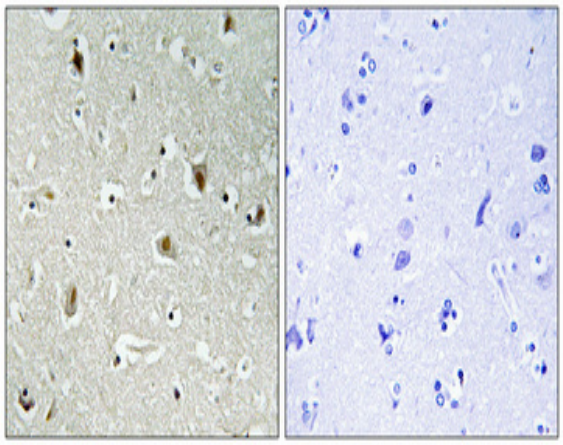
Function : function:Binds to the PU-box, a purine-rich DNA sequence (5'-GAGGAA-3') that can act as a lymphoid-specific enhancer. This protein is a transcriptional activator that may be specifically involved in the differentiation or activation of macrophages or B-cells. Also binds RNA and may modulate pre-mRNA splicing.,induction:Highly expressed in both FV-P and FV-A-induced erythro-leukemia cell lines that have undergone rearrangements of the Spi-1 gene due to the insertion of SFFV.,similarity:Belongs to the ETS family.,similarity:Contains 1 ETS DNA-binding domain.,subunit:Binds DNA as a monomer. Interacts with RUNX1 and SPIB. Interacts with CEBPD and NONO.,

Subcellular Location : Nucleus .

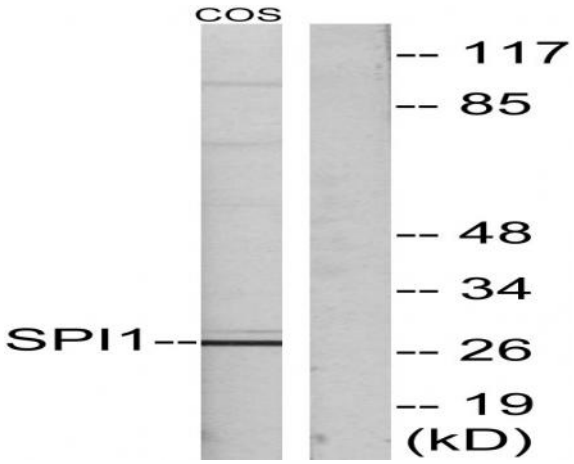
Products Images



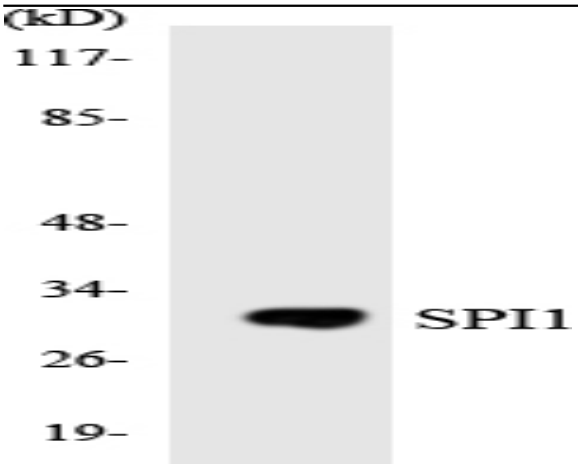
Western Blot analysis of various cells using PU.1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from COS7 cells, using SPI1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVECcells using SPI1 antibody.