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# Anti-PU.1/Spi1 Antibody
**Catalog # ABO12773**

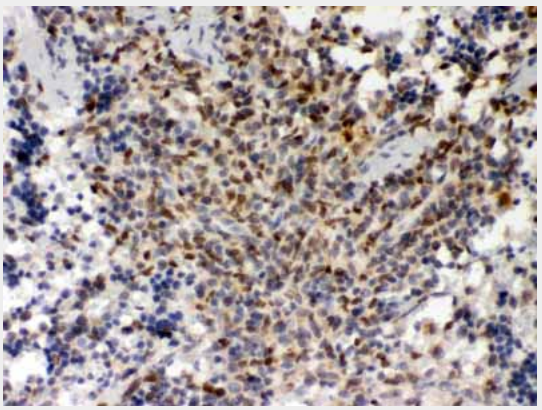
## Specification

### Anti-PU.1/Spi1 Antibody - Product Information

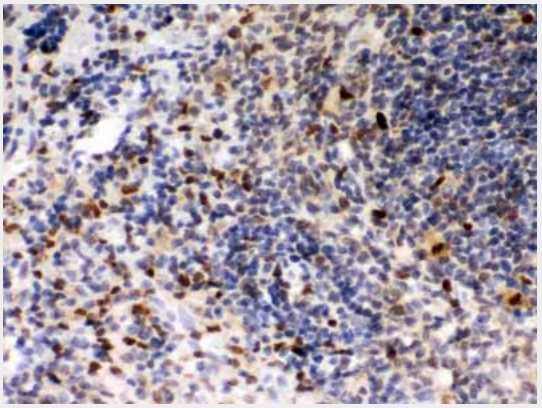
| | |
|---|---|
| Application | **IHC** |
| Primary Accession | P17947 |
| Host | **Rabbit** |
| Reactivity | **Human, Mouse, Rat** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Transcription factor PU.1(SPI1) detection. Tested with IHC-P in Human;Mouse;Rat.

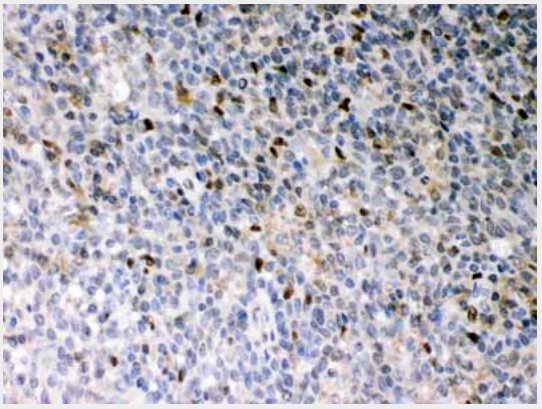
**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.



Anti- PU.1/Spi1 antibody, ABO12773, IHC(P)IHC(P): Mouse Spleen Tissue



Anti- PU.1/Spi1 antibody, ABO12773, IHC(P)IHC(P): Rat Spleen Tissue



Anti- PU.1/Spi1 antibody, ABO12773, IHC(P)IHC(P): Human Tonsil Tissue

### Anti-PU.1/Spi1 Antibody - Additional Information

**Gene ID** 6688

**Other Names**
Transcription factor PU.1, 31 kDa-transforming protein, SPI1

**Calculated MW**
31083 MW KDa

**Application Details**
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>

**Subcellular Localization**
Nucleus .

**Protein Name**
Transcription factor PU.1

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**
E.coli-derived human PU.1/Spi1 recombinant protein (Position: E18-K196).

Human PU.1/Spi1 shares 84% and 84.4% amino acid (aa) sequence identity with mouse and rat PU.1/Spi1, respectively.

**Purification**
Immunogen affinity purified.

**Cross Reactivity**
No cross reactivity with other proteins

| | |
|---|---|
| Storage | **At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.** |

**Anti-PU.1/Spi1 Antibody - Protein Information**

**Name** SPI1

**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 (By similarity).

**Cellular Location**
Nucleus
{ECO:0000255|PROSITE-ProRule:PRU00237, ECO:0000269|PubMed:23166356}

## Anti-PU.1/Spi1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-PU.1/Spi1 Antibody - Background

Transcription factor PU.1 is a protein that in humans is encoded by the SPI1 gene. 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.