# SP1 Rabbit pAb

**Catalog NO.: A14662SP** **11 Publications**

## Basic Information

### Observed MW
90 kDa

### Calculated MW
76 kDa/80 kDa/81 kDa

### Category
Polyclonal Antibodies

### Applications
WB, IF/ICC, IHC-P, ChIP, ELISA

### Cross-Reactivity
Human, Mouse, Rat

### Conjugation
Unconjugated

## Background

The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:1000 - 1:2000 |
| **IF/ICC** | 1:100 - 1:400 |
| **IHC-P** | 1:200 - 1:800 |

**ChIP** 3 µg antibody for 10 µg - 15 µg of Chromatin

### ELISA
Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (⩾1:10000)

## Immunogen Information

### Gene ID
6667

### Swiss Prot
P08047

### Immunogen
This information is considered to be commercially sensitive.

### Synonyms
SP1

## Contact

## Product Information

order@abclonal.com
service@abclonal.com
www.abclonal.com

**Source**
Rabbit

**Isotype**
IgG

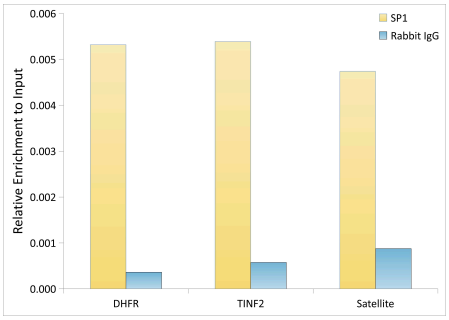
**Purification**
Affinity purification

**Storage**
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

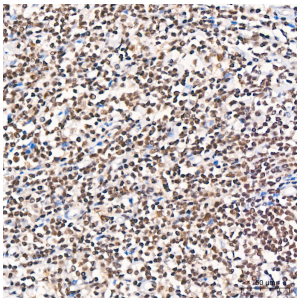
## Validation Data

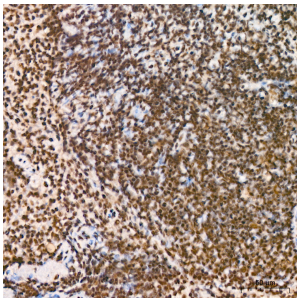


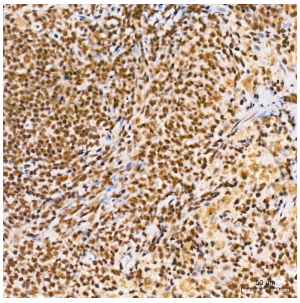
Western blot analysis of lysates from HeLa cells using SP1 Rabbit pAb (A14662SP) at 1:1000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.




Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from 293T cells, using 3 µg of SP1 Rabbit pAb (A14662SP) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.





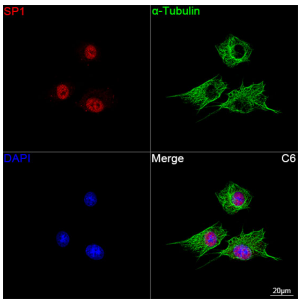


Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue tissue using SP1 Rabbit pAb (A14662SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using SP1 Rabbit pAb (A14662SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using SP1 Rabbit pAb (A14662SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

## Validation Data




Confocal imaging of C6 cells using SP1 Rabbit pAb (A14662SP, dilution 1:100) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

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