

**SP3 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14413C****Specification**

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**SP3 Antibody (Center) - Product Information**

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Application       | WB,E                                                         |
| Primary Accession | <a href="#">Q02447</a>                                       |
| Other Accession   | <a href="#">NP_003102.1</a> , <a href="#">NP_001166183.1</a> |
| Reactivity        | Human                                                        |
| Host              | Rabbit                                                       |
| Clonality         | Polyclonal                                                   |
| Isotype           | Rabbit IgG                                                   |
| Calculated MW     | 81925                                                        |
| Antigen Region    | 292-321                                                      |

**SP3 Antibody (Center) - Additional Information****Gene ID** 6670**Other Names**

Transcription factor Sp3, SPR-2, SP3

**Target/Specificity**

This SP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 292-321 amino acids from the Central region of human SP3.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SP3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**SP3 Antibody (Center) - Protein Information****Name** SP3

**Function** Transcriptional factor that can act as an activator or repressor depending on isoform and/or post-translational modifications. Binds to GT and GC boxes promoter elements. Competes

with SP1 for the GC-box promoters. Weak activator of transcription but can activate a number of genes involved in different processes such as cell-cycle regulation, hormone-induction and house-keeping.

**Cellular Location**

Nucleus, PML body. Note=Localizes to the nuclear periphery and in nuclear dots when sumoylated. Some localization in PML nuclear bodies

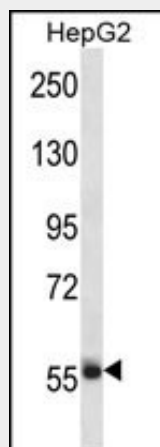
**Tissue Location**

Ubiquitously expressed.

**SP3 Antibody (Center) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SP3 Antibody (Center) - Images**

SP3 Antibody (Center) (Cat. #AP14413c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the SP3 antibody detected the SP3 protein (arrow).

**SP3 Antibody (Center) - Background**

This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA)

start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13.

### **SP3 Antibody (Center) - References**

Yamaguchi, K., et al. Biochem. J. 430(1):107-117(2010)  
Jutooru, I., et al. J. Biol. Chem. 285(33):25332-25344(2010)  
Markovics, J.A., et al. J. Biol. Chem. 285(32):24695-24706(2010)  
Eckerstorfer, P., et al. Mol. Immunol. 47 (11-12), 2094-2102 (2010) :  
Moran, K.M., et al. Gene 341, 235-247 (2004) :