

**Sp3 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10684****Specification**

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**Sp3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q02447</a>
Other Accession	<a href="#">AAH42945</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	81925

**Sp3 Antibody - Additional Information****Gene ID** 6670

Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been tested. The antibody detects ~86-100 kDa Sp3 in samples from human, mouse and rat origins.
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**Other Names**

Sp-3, Sp3, SP 3, SP-3, SP3 transcription factor, transcription factor SP 3, Transcription factor SP3

**Target/Specificity**

Sp3

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-Sp3 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

Sp3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Sp3 Antibody - 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. 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 - 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 - Images****Sp3 Antibody - Background**

Sp transcription factor family has a highly conserved DNA-binding domain composed of zinc fingers. The Sp family is comprised of Sp1, Sp2, Sp3 and Sp4 that regulates transcription by binding to consensus GC- and GT-box regulatory elements in the target genes. Sp1, Sp3 and Sp4 have a high binding capacity for GC box while Sp2 binds weakly to the GT box. Sp3 has been shown to have to a bifunctional transcription factor that can either stimulates or represses the transcription of various genes.