10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Sp3 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10684

Specification

Sp3 Antibody - Product Information

Application	**WB**
Primary Accession	Q02447
Other Accession	AAH42945
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.**

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 Cytomety
- 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.