



## Rabbit Anti-Transcription factor Sp4 antibody

SL16568R

<b>Product Name:</b>	Transcription factor Sp4
<b>Chinese Name:</b>	转录因子SP4抗体
<b>Alias:</b>	HF1B; MGC130008; MGC130009; Sp4; SP4_HUMAN; SPR-1; SPR1; Transcription factor Sp4.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Pig,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	82kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Transcription factor Sp4:621-720/784
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The Sp transcription factor family includes Sp1, Sp2, Sp3 (SPR-2) and Sp4 (SPR-1). Sp transcription factors share similar structures but do not share similar functions. All four proteins contain a highly conserved DNA-binding domain composed of three zinc fingers at the C-terminus. Sp family members bind the consensus sequence GGGGCGGGGC and other closely related sequences which are known as GC boxes.

Sp1, Sp3 and Sp4 share a high affinity for GC boxes while Sp2 does not. Sp2 only weakly binds to GT boxes. Sp1, Sp2 and Sp3 are ubiquitously expressed, while Sp4 is abundantly expressed in brain with limited expression in other tissues. Sp1 and Sp3, but not Sp2 or Sp4, interact with E2, a regulatory element for the beta 4 subunit of neuronal nicotinic acetylcholine receptors. Sp3 is the only Sp member to inhibit Sp1 and Sp4 mediated transcription.

**Function:**

Binds to GT and GC boxes promoters elements. Probable transcriptional activator.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Abundant in brain.

**Similarity:**

Belongs to the Sp1 C2H2-type zinc-finger protein family.  
Contains 3 C2H2-type zinc fingers.

**SWISS:**

Q02446

**Gene ID:**

6671

**Database links:**

[Entrez Gene: 6671](#) Human

[Entrez Gene: 20688](#) Mouse

[Entrez Gene: 25162](#) Rat

[Omim: 600540](#) Human

[SwissProt: Q02446](#) Human

[SwissProt: Q62445](#) Mouse

[Unigene: 88013](#) Human

[Unigene: 259312](#) Mouse

[Unigene: 9989](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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