

Product datasheet for AP06584PU-S

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SP1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunofluorescence: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to amino acids 421-470 of Human Sp1.

Specificity: This antibody detects endogenous levels of SP1 protein.

(region surrounding Gly447)

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified lg fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-

PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 90 kDa

Gene Name: Sp1 transcription factor

Database Link: Entrez Gene 20683 MouseEntrez Gene 24790 RatEntrez Gene 6667 Human

P08047





Background:

Sp1 is a sequence-specific transcription factor that recognizes GGGGCGGGC and closely related sequences, which are often referred to as GC boxes. Sp1 was initially identified as a HeLa cell-derived factor that selectively activates in vitro transcription from the SV40 promoter and binds to the multiple GC boxes in the 21 bp repeated elements in SV40. The sequence specificity of DNA binding is conferred by Zn (II) fingers, whereas a different region of Sp1 appears to regulate the affinity of DNA binding. Sp1 belongs to a subgroup of transcription factors that are phosphorylated upon binding to promoter sequences. Evidence suggests that the early growth response gene, Erg-1 (also known as Zif268 or NGF1-A), may downregulate certain mammalian gene promoters by competing with Sp1 for binding to an overlapping binding motif. The gene encoding human Sp1 maps to chromosome 12q13.1.

Synonyms: Transcription factor Sp1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Stem cell relevant

signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways: Huntington's disease, TGF-beta signaling pathway

Product images:



Western blot (WB) analysis of SP1 antibody in K-562 (A) and A-431 (B) whole cell lysates.



Immunohistochemistry (IHC) analyes of SP1 antibody in paraffin-embedded human brain tissue.