SP1

Rabbit Anti-Mouse SP1 Transcription Factor Clone Poly6247 pAb

Catalog No.	CSI14432 CSI14433	**Quantity:**	125 µl 500 µl

Alternate Names: Transcription factor Sp1, SP1

Description: The sequence-specific transcription factor Sp1 binds GC box sequences in the promoters of a variety of genes. The 97 kD Sp1 transcription factor contains two zinc finger domains that determine sequence specificity of binding to the 5'-GGGGCGGGGC-3'. This transcription factor regulates nucleoside, nucleotide and nucleic acid metabolism and many other "housekeeping" genes. Sp1 can be modified by phosphorylation by the upstream kinase ERK1 and has been shown to interact with a large number of proteins. The transcriptional activity of Sp1 has been shown to be disrupted in early Huntington's disease. The Poly6247 antibody recognizes human, mouse, and rat Sp1 and has been shown to be useful for Western blotting.

Structure: Transcription factor interacting with promoters containing GC-box elements, contains 2 zinc finger domains and requires zinc for sequence-specific DNA binding, approximately 97 kD.

Gene ID: 6667

Distribution: Ubiquitous nuclear expression

Function: Transcription factor regulating nucleoside, nucleotide and nucleic acid metabolism as well as many other "housekeeping" genes.

Host: Rabbit

Immunogen: Peptide mapping to internal domain of human Sp1

Isotype: IgG

Clone: Poly6247

Modification: Phosphorylation (Ser 59, Thr 350, Thr736)

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% gelatin. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: This antibody was purified by antigen-affinity chromatography.

Interaction: ELF1 transcription factor, myogenic factor 4, Shc, TAFII130, E2F, histone deacetylase 1, Sp3, c-Jun, SMAD4, SMAD2, BRCA1, c-Myc, and many others.

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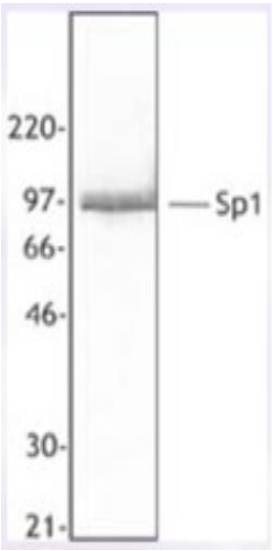
Reactivity: Mouse, Rat, Human

Applications: WB, IHC

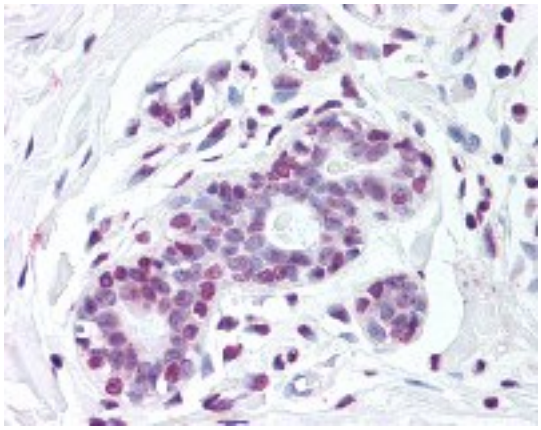
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 25 µl per 5 ml antibody dilution buffer for each mini-gel. For IHC, use a 1:50 dilution of antibody for staining. Antigen retrieval for IHC of formalin-fixed paraffin-embedded tissue using 0.01 M sodium citrate buffer is recommended. It is recommended that the reagent be titrated for optimal performance for each application

Storage & Stability: The antibody solution should be stored undiluted at 4°C. **DO NOT FREEZE.**

Jurkat cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-Sp1 polyclonal antibody. Proteins were visualized using a donkey anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence system.



Formalin-fixed paraffin-embedded human breast tissue was stained with Poly6247 and developed with an alkaline phosphatase chromogen substate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.



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