

Rabbit anti-Human Sp1 phospho Ser101 Polyclonal Antibody | anti-Sp1 antibody

Sp1 phospho Ser101 antibody (pAb)

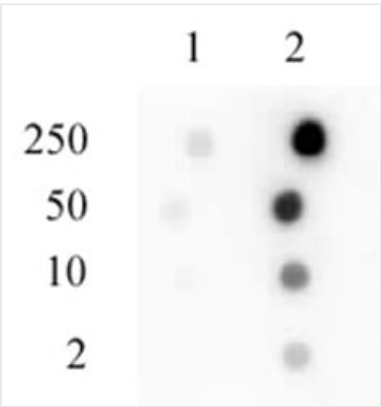
CATALOG # AAA59927	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Sp1 phospho Ser101; Polyclonal Antibody; Sp1 phospho Ser101 antibody (pAb); TSFP1; anti-Sp1 antibody

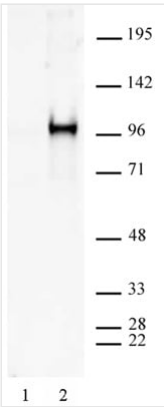
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in 70mM Tris (pH8), 105mM NaCl, 31mM glycine, 0.07mM EDTA, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-Sp1 antibody	WB (Western Blot)
Conjugation	Phosphorylated
Immunogen	This Sp1 phospho Ser101 antibody was raised against a peptide containing phospho-serine 101 of human Sp1.
Abs Residue	Ser
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul



DB (Dot Blot)

Sp1 phospho Ser101 antibody tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Sp1 phospho Ser101 antibody for Sp1 phosphorylated at serine 101. Modified and unmodified peptides were spotted onto PVDF and probed with Sp1 phospho Ser101 antibody at a dilution of 1:5,000. The amount of peptide spotted (in picomoles) is indicated next to each row. Lane 1: Unmodified Sp1 peptide. Lane 2: Sp1 peptide phosphorylated at Serine 101.



WB (Western Blot)

Sp1 phospho Ser101 antibody tested by Western blot. Sp1 phospho Ser101 was detected in nuclear extracts of MCF-7 cells (25 ug per lane) using Sp1 phospho Ser101 antibody at dilution of 1:500. Lane 1: No treatment. Lane 2: Cells treated with H₂O₂.

ADDITIONAL INFORMATION

Related Product Information for anti-Sp1 antibody	Short Description: Our Sp1 phospho Ser101 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Western blot; it has been shown to react with Human samples. Background: Sp1 (specificity protein 1) is a human transcription factor involved in gene expression in the early development of an organism. The protein is 785 amino acids long, with a molecular weight of 81 kDa. The SP1 transcription factor contains a zinc finger protein motif, by which it binds directly to DNA and enhances gene transcription. Its zinc fingers are of the Cys2/His2 type and bind the consensus sequence 5'-(G/T)GGGCGG(G/A)(G/A)(C/T)-3' (GC box element). It was discovered in 1983 and has since been modified to form Sp1C, which has a zinc finger protein DNA binding domain. Sp1 contains two SQ/TQ domains, which are found in proteins phosphorylated by the DNA-damage response transducer/effector kinase ATM. Phosphorylation of serine 101 (dependent upon ATM and ATR) is stimulated by double strand DNA breakage (DSBs) as well as by blocks to DNA replication induced by treatment with hydroxyurea or UV irradiation. Sp1 phospho Ser101 co-localizes with ATM phospho Ser1981 at DSBs, suggesting that this phosphorylated version of Sp1 plays a role in double strand break repair.
Product Categories/Family for anti-Sp1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	38372901
NCBI GeneID	6667
NCBI Accession #	NP_612482; AB_2793332
NCBI GenBank Nucleotide #	NM_138473.2
UniProt Accession #	P08047; Q86TN8; Q9H3Q5; Q9NR51; Q9NY21; Q9NYE7; E4Z9M7; G5E9M8
Molecular Weight	75,824 Da
NCBI Official Full Name	transcription factor Sp1 isoform a
NCBI Official Synonym Full Names	Sp1 transcription factor
NCBI Official Symbol	SP1
NCBI Protein Information	transcription factor Sp1

UniProt Protein Name	Transcription factor Sp1
UniProt Gene Name	SP1
UniProt Synonym Gene Names	TSFP1
UniProt Entry Name	SP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sp1-phospho-ser101-antibody-western-blot-elisa/59927>