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Anti-Transcription factor Sp1 SP1 Antibody

Catalog Number: RP1072

About SP1

Transcription factor Sp1, also known as specificity protein 1* is a protein that in humans is encoded by the SP1 gene. The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-Transcription factor Sp1 SP1 Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-Transcription factor Sp1 SP1 Antibody catalog # RP1072. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2mg Na2HPO4, 0.05 mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08047

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SP1, different from the related mouse and rat sequences by two amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Rat

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Anti-Transcription factor Sp1 SP1 Antibody (RP1072) Images

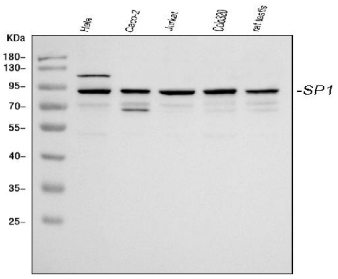

Figure 1. Western blot analysis of SP1 using anti-SP1 antibody (RP1072).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human CACO-2 whole cell lysates,
Lane 3: human Jurkat whole cell lysates,
Lane 4: human COLO320 whole lysates,
Lane 5: rat testis tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SP1 antigen affinity purified polyclonal antibody (Catalog # RP1072) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SP1 at approximately 90 kDa. The expected band size for SP1 is at 90 kDa.

1 Publications Citing This Product

1. PubMed ID: 28678802, miR-182 aids in receptive endometrium development in dairy goats by down-regulating PTN expression

Visit bosterbio.com/anti-sp1-antibody-rp1072-boster.html to see all 1 publications.