



Sp1 Monoclonal Antibody

Catalog No	YP-mAb-02033
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SP1
Immunogen	The antiserum was produced against synthesized peptide derived from human SP1. AA range:706-755
Specificity	Sp1 Monoclonal Antibody detects endogenous levels of Sp1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SP 1;Sp1 transcription factor;Specificity protein 1;TSFP1;Sp1;Transcription factor Sp1
Observed Band	85kD
Calculated Molecular Weight	85kD
Cell Pathway	Nucleus. Cytoplasm. Nuclear location is governed by glycosylated/ phosphorylated states. Insulin promotes nuclear location, while glucagon favors cytoplasmic location.
Tissue Specificity	Up-regulated in adenocarcinomas of the stomach (at protein level). Isoform 3 is ubiquitously expressed at low levels.
Function	function: Binds to GC box promoters elements and selectively activates mRNA synthesis from genes that contain functional recognition sites. Can interact with G/C-rich motifs from serotonin receptor promoter.,PTM:O-glycosylated; contains N-acetylglucosamine side chains.,similarity:Belongs to the Sp1 C2H2-type zinc-finger protein family.,similarity:Contains 3 C2H2-type zinc fingers., subunit:Interacts with ATF7IP, ATF7IP2, POGZ, HCFC1, AATF and PHC2. Interacts with varicella-zoster virus IE62 protein and HIV-1 Vpr. Interacts with SV40 VP2/3 proteins. Interacts with SV40 major capsid protein VP1; this interaction leads to a cooperativity between the two proteins in DNA binding.,



Background

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. [provided by RefSeq, Nov 2014],

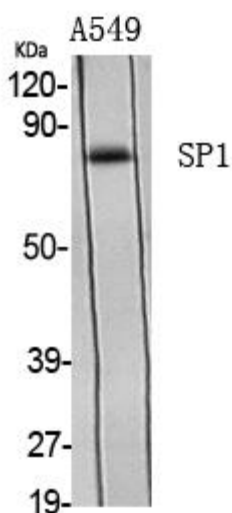
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Sp1 Monoclonal Antibody