

Datasheet for ABIN1944791  
**anti-SP1 antibody (AA 1-250)**[Go to Product page](#)

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## Overview

Quantity:	400 µL
Target:	SP1
Binding Specificity:	AA 1-250
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Immunogen:	This SP1 antibody is generated from a mouse immunized with a recombination protein from the human SP1.
Clone:	1326CT463-109-176
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

## Target Details

Target:	SP1
Alternative Name:	SP1 ( <a href="#">SP1 Products</a> )
Background:	Transcription factor that can activate or repress transcription in response to physiological and

## Target Details

pathological stimuli. Binds with high affinity to GC-rich motifs and regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Highly regulated by post-translational modifications (phosphorylations, sumoylation, proteolytic cleavage, glycosylation and acetylation). Binds also the PDGFR- alpha G-box promoter. May have a role in modulating the cellular response to DNA damage. Implicated in chromatin remodeling. Plays a role in the recruitment of SMARCA4/BRG1 on the c-FOS promoter. Plays an essential role in the regulation of FE65 gene expression. In complex with ATF7IP, maintains telomerase activity in cancer cells by inducing TERT and TERC gene expression.

Molecular Weight: 80693

Gene ID: 6667

UniProt: [P08047](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#), [Myometrial Relaxation and Contraction](#)

## Application Details

Application Notes: IF: 1:25. WB: 1:1000. FC: 1:25

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months

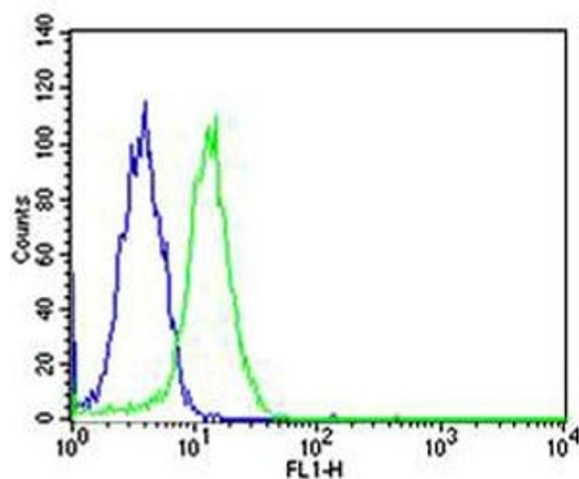
## Publications

Product cited in: McPherson, Baichwal, Weigel: "Identification of ERF-1 as a member of the AP2 transcription factor family." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 94, Issue 9, pp. 4342-7, (1997) ([PubMed](#)).

Williamson, Boshier, Skinner, Sheer, Williams, Hurst: "Chromosomal mapping of the human and mouse homologues of two new members of the AP-2 family of transcription factors." in:

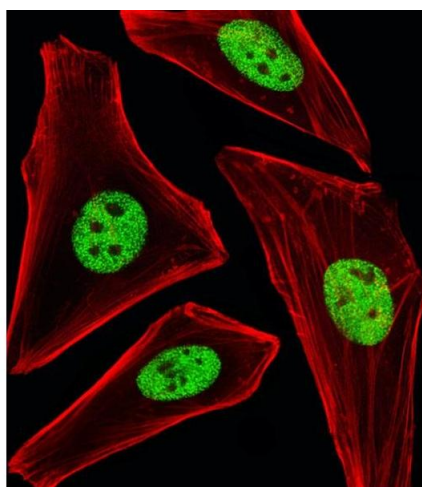
**Genomics**, Vol. 35, Issue 1, pp. 262-4, (1996) ([PubMed](#)).

## Images



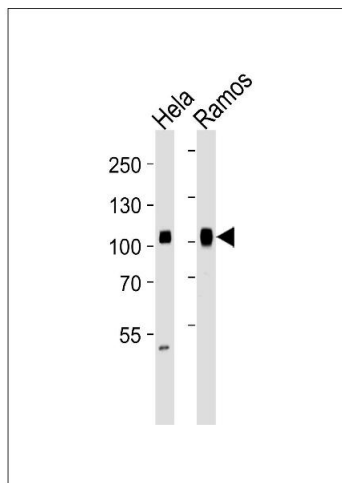
### Flow Cytometry

**Image 1.** Flow cytometric analysis of Hela cells using SP1 Antibody (green, Cat(ABIN1944791 and ABIN2838536)) compared to an isotype control of mouse IgG1(blue). (ABIN1944791 and ABIN2838536) was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



### Immunofluorescence

**Image 2.** Fluorescent image of Hela cells stained with SP1 Antibody (ABIN1944791 and ABIN2838536). (ABIN1944791 and ABIN2838536) was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



### Western Blotting

**Image 3.** Western blot analysis of lysates from HeLa, Ramos cell line (from left to right), using SP1 Antibody (ABIN1944791 and ABIN2838536). (ABIN1944791 and ABIN2838536) was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.