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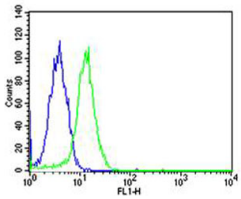
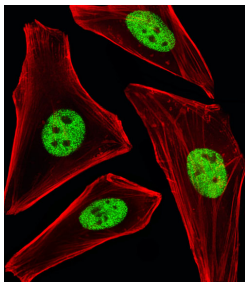
SP1 Mouse mAb

Catalog Number:	bsm-51587M
Target Protein:	SP1
Concentration:	1mg/ml
Form:	Liquid
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	Y5R2
Isotype:	IgG1,K
Applications:	WB (1:500-1000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1:25), ICC/IF (1:100-500)
Reactivity:	Human
Predicted MW:	81 kDa
Entrez Gene:	6667
Swiss Prot:	P08047
Purification:	affinity purified by Protein G
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Profound changes in patterns of gene expression can result from relatively small changes in the concentrations of sequence specific transcription factors. Synergistic interaction between factors bound to different sites within a transcriptional control region is supported by the work of Courey et al. (1989). Sp1 is a sequence specific transcription factor that recognizes GGGGCGGGGC and closely related sequences, which are often referred to as GC boxes. Sp1 binds to GC box promoters elements and selectively activates mRNA synthesis from genes that contain functional recognition sites. SP1 can interact with G/C rich motifs from serotonin receptor promoter. Kadonaga et al. (1987) cloned the human Sp1 cDNA and showed that it has contiguous zinc finger motifs and requires zinc for sequence specific binding to DNA. Alternname：Sp1 transcription factor isoform a; TSFP1; TSFP 1; Specificity protein 1; Transcription factor Sp1.

VALIDATION IMAGES



Blank control: Hela. Primary Antibody (green line): Mouse Anti-SP1 antibody (bsm-51587M) Dilution: 1:25; Isotype Control Antibody (blue line): Mouse IgG Secondary Antibody : Goat anti-mouse IgG-AF488 Dilution: 1:400 Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (SP1) monoclonal Antibody, Unconjugated (bsm-51587M) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes,Alexa Fluor® 555 conjugated with Phalloidin(red) was used to stain the cell Cytoplasmic actin.