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antibody and ELISA experts

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Anti-Spt6/SUPT6H Antibody Picoband®

Catalog Number: A06484-1

About SUPT6H

Transcription elongation factor SPT6 is a protein that in humans is encoded by the SUPT6H gene. SUPT6H (suppressor of Ty6 homolog), also known as SPT6, SPT6H, Tat-CT2 (Tat-cotransactivator 2 protein) or emb-5 in C. elegans, is a 1,726 amino acid protein that is highly conserved from yeast to humans. Expressed ubiquitously, SUPT6H localizes to the nucleus and contains one SH2 domain and one S1 domain. SUPT6H participates in both DRB (5,6-dichloro-1-beta-D-ribofuranosylbenzimidazole)-mediated transcriptional inhibition as well as the enhancement of transcriptional elongation by the RNA polymerase II (Pol II). SUPT6H interacts with the nuclear proteins SPT4 and SPT5, which comprise the DSIF (DRB-sensitivity-inducing factor) complex that binds RNA polymerase II, and directly regulates elongation. Via its C-terminus, SUPT6H can also interact with Histone H3. Due to alternative splicing events, three isoforms exist for SUPT6H. This antibody specifically recognizes the 230kd phosphorylated SUPT6H protein.

Overview

Product Name	Anti-Spt6/SUPT6H Antibody Picoband®
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-Spt6/SUPT6H Antibody Picoband® catalog # A06484-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q7KZ85

Technical Details

Immunogen	E.coli-derived human Spt6/SUPT6H recombinant protein (Position: A564-Q1639).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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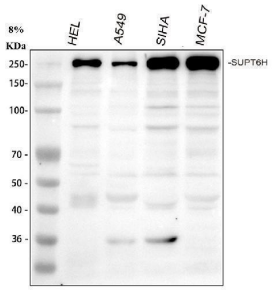
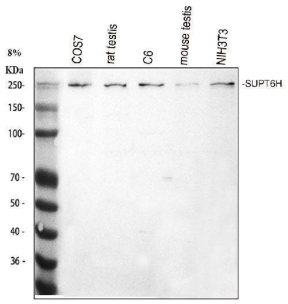
Anti-Spt6/SUPT6H Antibody Picoband® (A06484-1) Images



Western blot analysis of SUPT6H using anti-SUPT6H antibody (A06484-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HEL whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: human MCF-7 whole cell 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-SUPT6H antigen affinity purified polyclonal antibody (A06484-1) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for SUPT6H at approximately 250 kDa. The expected band size for SUPT6H is at 199 kDa.



Western blot analysis of SUPT6H using anti-SUPT6H antibody (A06484-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: monkey COS-7 whole cell lysates, Lane 2: rat testis tissue lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse testis tissue lysates, Lane 5: mouse NIH/3T3 whole cell 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-SUPT6H antigen affinity purified polyclonal antibody (A06484-1) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for SUPT6H at approximately 250 kDa. The expected band size for SUPT6H is at 199 kDa.

IF analysis of SUPT6H using anti-SUPT6H antibody (A06484-1). SUPT6H was detected in an immunocytochemical section of TPC1 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-SUPT6H Antibody (A06484-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and

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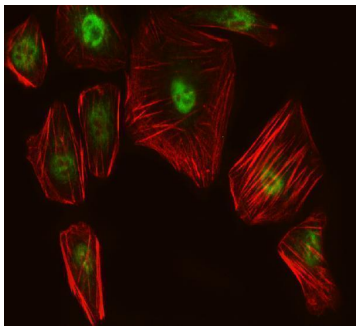
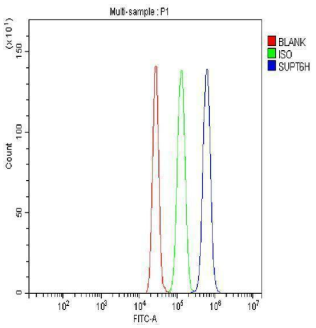


incubated for 30 minutes at 37°C. The tissue section was developed using Phalloidin-iFluor 594 Conjugated. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of SiHa cells using anti-SUPT6H antibody (A06484-1). Overlay histogram showing SiHa cells stained with A06484-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SUPT6H Antibody (A06484-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-Spt6/SUPT6H Antibody

For Research Use Only. Not for use in diagnostic procedures.