

Anti-IWS1 Antibody Picoband®

Catalog Number: A05958-1

About IWS1

Protein IWS1 homolog also known as interacts with Spt6 (IWS1) is a protein that in humans is encoded by the IWS1 gene. Various steps in gene expression, such as mRNA processing, surveillance, export, and synthesis are coupled to transcription elongation). The C-terminal domain (CTD) of the large subunit of RNA polymerase II plays an important role in the integration of these different steps. IWS1 interacts with Spt6, a CTD-binding transcription elongation factor and H3 chaperone. IWS1 also recruits another CTD-binding protein, HYPB/Setd2 histone methyltransferase, to the RNA polymerase II complex for elongation-coupled H3K36 trimethylation. Thus, IWS1 links Spt6 and HYPB/Setd2 in a large complex and regulates mRNA synthesis and histone methylation at the co-transcriptional level.

Overview

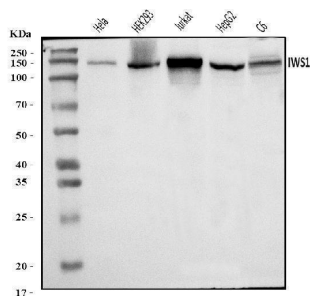
Product Name	Anti-IWS1 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-IWS1 Antibody Picoband® catalog # A05958-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q96ST2

Technical Details

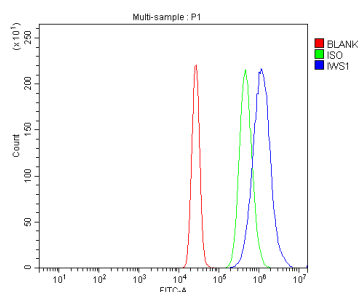
Immunogen	E.coli-derived human IWS1 recombinant protein (Position: R547-E771).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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

Anti-IWS1 Antibody Picoband® (A05958-1) Images



Western blot analysis of IWS1 using anti-IWS1 antibody (A05958-1). 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 HEK293 whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat C6 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-IWS1 antigen affinity purified polyclonal antibody (Catalog # A05958-1) at 0.25 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 IWS1 at approximately 140 kDa. The expected band size for IWS1 is at 140 kDa.



Flow Cytometry analysis of K562 cells using anti-IWS1 antibody (A05958-1). Overlay histogram showing K562 cells stained with A05958-1 (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-IWS1 Antibody (A05958-1, 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.

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Anti-IWS1 Antibody

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