

Rabbit anti-Human, Rat IWS1 Polyclonal Antibody | anti-IWS1 antibody

Anti-IWS1 Antibody Picoband

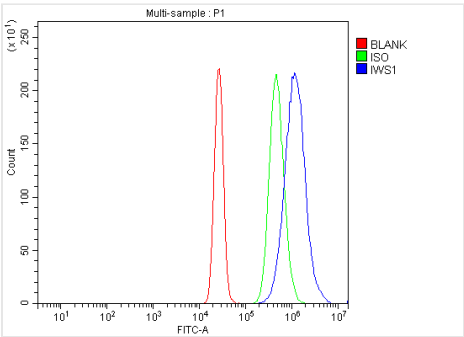
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126446	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

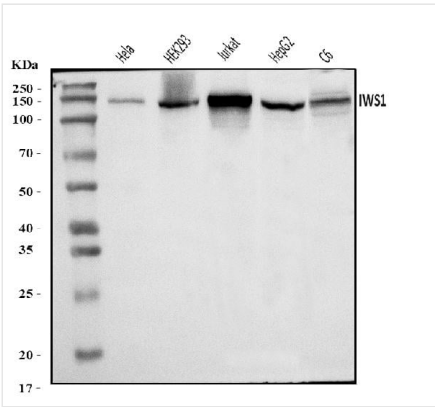
IWS1; Polyclonal Antibody; Anti-IWS1 Antibody Picoband; anti-IWS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-IWS1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human IWS1 recombinant protein (Position: R547-E771).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of K562 cells using anti-IWS1 antibody (AAA126446).Overlay histogram showing K562 cells stained with AAA126446 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IWS1 Antibody (AAA126446, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. Dylight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of IWS1 using anti-IWS1 antibody (AAA126446).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 (#AAA126446) at 0.25 ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-IWS1 antibody	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.
Product Categories/Family for anti-IWS1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	217330641
NCBI GeneID	55677
NCBI Accession #	NP_060439.2
NCBI GenBank Nucleotide #	NM_017969.2
UniProt Accession #	Q96ST2; Q2TB65; Q6P157; Q8N3E8; Q96MI7; Q9NV97; Q9NWH8
Molecular Weight	91,955 Da
NCBI Official Full Name	protein IWS1 homolog
NCBI Official Synonym Full Names	IWS1 homolog (S. cerevisiae)
NCBI Official Symbol	IWS1
NCBI Protein Information	protein IWS1 homolog; IWS1-like protein; interacts with Spt6

UniProt Protein Name	Protein IWS1 homolog
UniProt Gene Name	IWS1
UniProt Synonym Gene Names	IWS1L
UniProt Entry Name	IWS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/iws1-antibody-flow-cytometry-western-blot-elisa/126446>