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antibody and ELISA experts

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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-HRD1/SYVN1 Antibody Picoband®

Catalog Number: A02670-3

About SYVN1

E3 ubiquitin-protein ligase synoviolin is an enzyme that in humans is encoded by the SYVN1 gene. This gene encodes a protein involved in endoplasmic reticulum (ER)-associated degradation. The encoded protein removes unfolded proteins, accumulated during ER stress, by retrograde transport to the cytosol from the ER. This protein also uses the ubiquitin-proteasome system for additional degradation of unfolded proteins. Sequence analysis identified two transcript variants that encode different isoforms.

Overview

Product Name	Anti-HRD1/SYVN1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HRD1/SYVN1 Antibody Picoband® catalog # A02670-3. Tested in ELISA, Flow Cytometry, IP, IF, ICC, WB applications. This antibody reacts with Human, 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, IP, 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	Q86TM6

Technical Details

Immunogen	E.coli-derived human HRD1/SYVN1 recombinant protein (Position: Q68-R604).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
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 µg/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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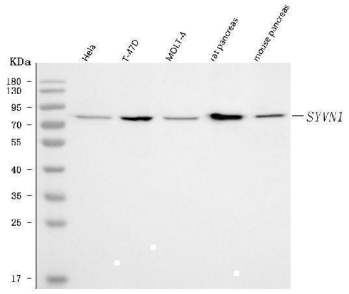
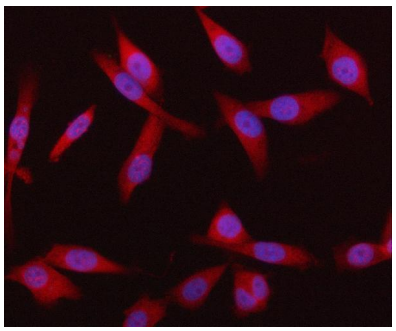
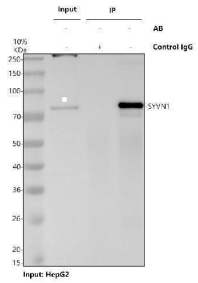
Anti-HRD1/SYVN1 Antibody Picoband® (A02670-3) Images



Western blot analysis of HRD1/SYVN1 using anti-HRD1/SYVN1 antibody (A02670-3). 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 T-47D whole cell lysates, Lane 3: human MOLT-4 whole cell lysates, Lane 4: rat pancreas tissue lysates, Lane 5: mouse pamcreas tissue 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-HRD1/SYVN1 antigen affinity purified polyclonal antibody (Catalog # A02670-3) 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 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 HRD1/SYVN1 at approximately 76 kDa. The expected band size for HRD1/SYVN1 is at 68 kDa.



IF analysis of HRD1/SYVN1 using anti-HRD1/SYVN1 antibody (A02670-3). HRD1/SYVN1 was detected in an immunocytochemical section of PC-3 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-HRD1/SYVN1 Antibody (A02670-3) overnight at 4°C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitating (IP) HRD1/SYVN1 in HepG2 whole cell lysate. Western blot analysis of HRD1/SYVN1 using anti-HRD1/SYVN1 antibody (A02670-3); Lane 1: HepG2 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-HRD1/SYVN1 antibody in HepG2 whole cell lysate; Lane 3: anti-HRD1/SYVN1 antibody (2ug) + HepG2 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HRD1/SYVN1 antigen affinity purified polyclonal antibody (A02670-3) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Light Chain). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for HRD1/SYVN1 at approximately 76 kDa. The expected band size for HRD1/SYVN1 is at 68 kDa.

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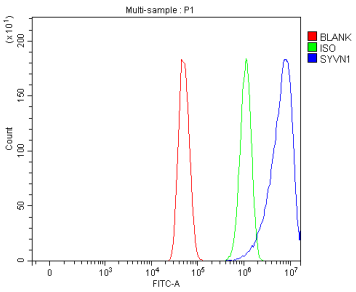

Flow Cytometry analysis of U251 cells using anti-HRD1/SYVN1 antibody (A02670-3). Overlay histogram showing U251 cells stained with A02670-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HRD1/SYVN1 Antibody (A02670-3, 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-HRD1/SYVN1 Antibody

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