BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Vaspin/SERPINA12 Antibody Picoband®

Catalog Number: A05352-2

About SERPINA12

Serpin A12 (serine proteinase inhibitor-clade A #12; also vaspin) is a 45?50 kDa, secreted member of the alpha1-antitrypsin (clade A)-subfamily, Serpin superfamily of protease inhibitors. It is produced by visceral and subcutaneous adipocytes, plus adipocyte-derived stem cells during obesity or diabetes. The presence of vaspin reverses insulin-resistance. Its molecular target is unknown, but it may antagonize the action of proteases that impair the action of insulin. Rat Serpin A12 is 411 amino acids (aa) in length. It contains a 20 aa signal sequence and a 391 aa mature region. A potential “active” inhibitor site lies between Gly364 and Pro389. Mature rat Serpin A12 shares 62% and 88% aa identity with human and mouse Serpin A12, respectively.

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Overview

Product Name	Anti-Vaspin/SERPINA12 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Vaspin/SERPINA12 Antibody Picoband® catalog # A05352-2. Tested in WB, IHC, FCM, ELISA 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, IHC, 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	Q8IW75

Technical Details

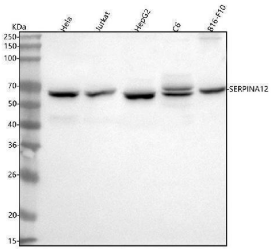
Immunogen	E.coli-derived human SERPINA12 recombinant protein (Position: K31-L376). Human Vaspin/SERPINA12 shares 64.5% and 65.4% amino acid (aa) sequence identity with mouse and rat

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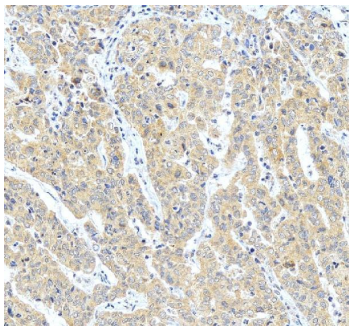
	SERPINA12, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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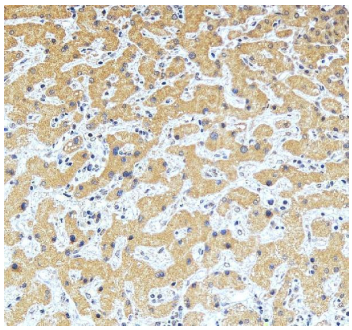
Anti-Vaspin/SERPINA12 Antibody Picoband® (A05352-2) Images



Western blot analysis of Vaspin/SERPINA12 using anti-Vaspin/SERPINA12 antibody (A05352-2). 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 Jurkat whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse B16-F10 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-Vaspin/SERPINA12 antigen affinity purified polyclonal antibody (Catalog # A05352-2) 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 Vaspin/SERPINA12 at approximately 55 kDa. The expected band size for Vaspin/SERPINA12 is at 47 kDa.

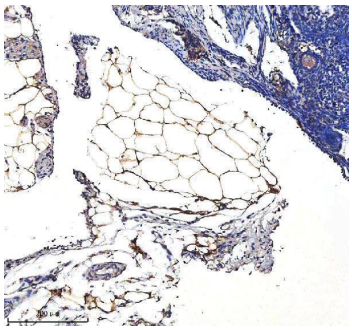


IHC analysis of Vaspin/SERPINA12 using anti-Vaspin/SERPINA12 antibody (A05352-2). Vaspin/SERPINA12 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Vaspin/SERPINA12 Antibody (A05352-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

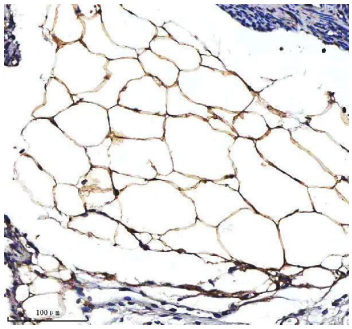


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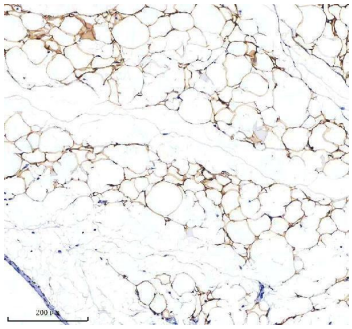
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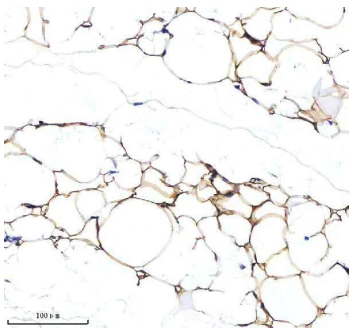
IHC analysis of Vaspin/SERPINA12 using anti-Vaspin/SERPINA12 antibody (A05352-2). Vaspin/SERPINA12 was detected in a paraffin-embedded section of adipose of mouse ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Vaspin/SERPINA12 Antibody (A05352-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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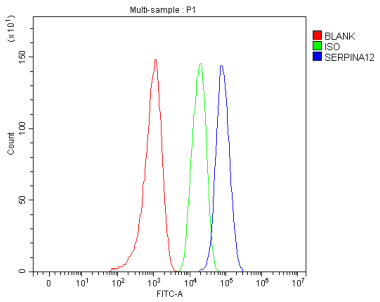


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Flow Cytometry analysis of HepG2 cells using anti-Vaspin/SERPINA12 antibody (A05352-2). Overlay histogram showing HepG2 cells stained with A05352-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Vaspin/SERPINA12 Antibody (A05352-2, 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 (Red line) was also used as a control.

Anti-Vaspin/SERPINA12 Antibody

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