BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-SERPINE3 Antibody Picoband®

Catalog Number: A18879

About SERPINE3

Predicted to enable serine-type endopeptidase inhibitor activity. Predicted to be involved in negative regulation of endopeptidase activity. Predicted to be active in extracellular space.

Overview

Product Name	Anti-SERPINE3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SERPINE3 Antibody Picoband® catalog # A18879. Tested in ELISA, 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, 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	A8MV23

Technical Details

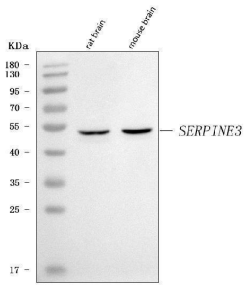
Immunogen	E.coli-derived human SERPINE3 recombinant protein (Position: K90-F424).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

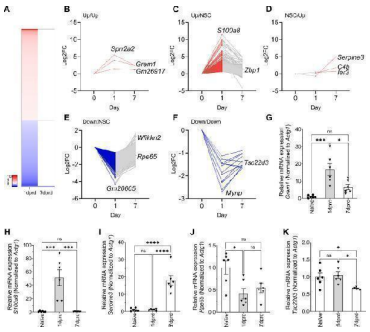
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-SERPINE3 Antibody Picoband® (A18879) Images



Western blot analysis of SERPINE3 using anti-SERPINE3 antibody (A18879). 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: rat brain tissue lysates, Lane 2: mouse brain 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-SERPINE3 antigen affinity purified polyclonal antibody (Catalog # A18879) 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 SERPINE3 at approximately 52 kDa. The expected band size for SERPINE3 is at 47 kDa.



Temporal gene and protein expression changes after retinal detachment and sequencing validation. (A) Heatmap showing significantly upregulated (FC ≥ 1.5, p adj ≤0.05, red) and downregulated (FC ≤ 0.67, p adj ≤0.05, blue) DEGs 1 and 7 dprd. (B-F) Relative expression values of DEG grouped by temporal expression. (B) Log2FC of all DEGs significantly upregulated at both 1 and 7 dprd (Up/Up). (C) Log2FC of DEGs significantly upregulated only at 1 dprd (Up/NSC). Gray indicates DEG that were not significantly changed (NSC). (D) Log2FC of DEGs significantly upregulated only at 7 dprd (NSC/Up). (E) Log2FC of DEGs significantly downregulated only at 1 dprd (Down/NSC). (F) Log2FC of DEGs significantly downregulated at both 1 and 7 dprd (Down/Down). (G-K) QRT-PCR of temporal DEG expression changes after retinal detachment for RNA-Seq validation. Relative mRNA expression of (G) Grem1 , (H) S100a8 , (I) Serpine3 , (J) Rpe65 , and (K) Tsc22d3 , obtained from isolated naïve RPE (n = 6), as well RD RPE at 1 dprd (n = 6) and 7 dprd (n = 6). Bar graphs represent mean ± SEM. Statistical analysis was performed using one-way ANOVA with repeated measures followed by Tukey's post hoc test. * p

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com