

Anti-ADAMTS13 Antibody Picoband™

Catalog Number: PB10028

About ADAMTS13

ADAMTS13 (a disintegrin and metalloproteinase with athrombospondin type 1 motif, member 13), also known as VWFCP, is a zinc-containing metalloprotease enzyme that cleaves von Willebrand factor (vWf), a large protein involved in blood clotting. It is secreted in blood and degrades large vWf multimers, decreasing their activity. This gene encodes a member of a family of proteins containing several distinct regions, including a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. This gene is mapped to 9q34.

Overview

Product Name	Anti-ADAMTS13 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ADAMTS13 Antibody Picoband™ catalog # PB10028. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q76LX8

Technical Details

Immunogen	E. coli-derived human ADAMTS13 recombinant protein (Position: A299-R488). Human ADAMTS13 shares 85.2% amino acid (aa) sequence identity with mouse ADAMTS13.
Predicted Reactive Species	Bovine, Canine, Chicken, Hamster, Horse, Monkey, Rabbit
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p> <p>ELISA(Cap) , 0.1-0.5ug/ml, Human, -</p>

Anti-ADAMTS13 Antibody Picoband™ (PB10028) Images

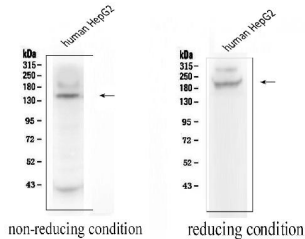


Figure 1. Western blot analysis of ADAMTS13 using anti-ADAMTS13 antibody (PB10028). Western blot analysis of ADAMTS13 expression in human HepG2 whole cell lysates 50ug, ADAMTS13 at 154KD under non-reducing conditions and 200 kD under reducing conditions were detected using rabbit anti-ADAMTS13 Antigen Affinity purified polyclonal antibody (Catalog # PB10028) at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

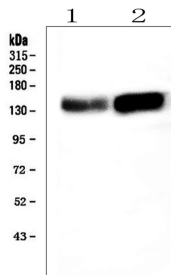


Figure 2. Western blot analysis of ADAMTS13 using anti-ADAMTS13 antibody (PB10028). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse liver tissue lysates, Lane 2: rat brain tissue lysates, After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-ADAMTS13 antigen affinity purified polyclonal antibody (Catalog # PB10028) 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 1:10000 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 ADAMTS13 at approximately 154KD. The expected band size for ADAMTS13 is at 154KD.

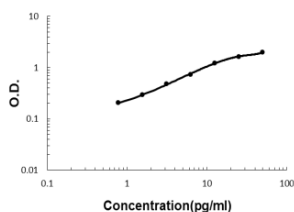


Figure 3. Sandwich ELISA - Recombinant human ADAMTS13 protein standard curve. Use in combination with reagents from Human ADAMTS13 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0927).

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