

Anti-CD97/Adgre5 Antibody Picoband™

Catalog Number: A30392-1

About Adgre5

Cluster of differentiation 97 is a protein also known as BL-Ac[F2] encoded by the ADGRE5 gene. This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which associate at the cell surface as a receptor complex. The encoded protein may play a role in cell adhesion as well as leukocyte recruitment, activation and migration, and contains multiple extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface complement regulatory protein CD55. Expression of this gene may play a role in the progression of several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is found in a cluster with other EGF-TM7 genes on the short arm of chromosome 19.

Overview

Product Name	Anti-CD97/Adgre5 Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-CD97/Adgre5 Antibody Picoband™ catalog # A30392-1. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
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	Q9Z0M6

Technical Details

Immunogen	E.coli-derived mouse CD97/Adgre5 recombinant protein (Position: Q287-S816).
Predicted Reactive Species	Hepatitis Virus
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 IHC(P).
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, 0.1-0.25ug/ml, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat</p> <p>Flow Cytometry, 1-3ug/1x10⁶ cells, Mouse</p> <p>Direct ELISA, 0.1-0.5ug/ml, Mouse</p>

Anti-CD97/Adgre5 Antibody Picoband™ (A30392-1) Images

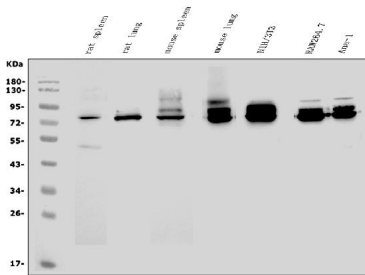


Figure 1. Western blot analysis of CD97/Adgre5 using anti-CD97/Adgre5 antibody (A30392-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat spleen tissue lysates,
Lane 2: rat lung tissue lysates,
Lane 3: mouse spleen tissue lysates,
Lane 4: mouse lung tissue lysates,
Lane 5: mouse NIH/3T3 whole cell lysates,
Lane 6: mouse RAW264.7 whole cell lysates,
Lane 7: mouse ANA-1 whole cell 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-CD97/Adgre5 antigen affinity purified polyclonal antibody (Catalog # A30392-1) at 0.25 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 CD97/Adgre5 at approximately 92KD. The expected band size for CD97/Adgre5 is at 92KD.

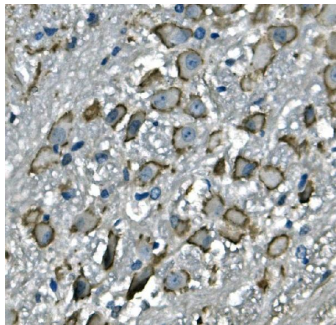


Figure 2. IHC analysis of CD97/Adgre5 using anti-CD97/Adgre5 antibody (A30392-1). CD97/Adgre5 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CD97/Adgre5 Antibody (A30392-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

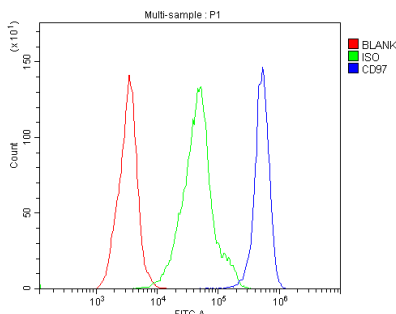


Figure 3. Flow Cytometry analysis of mouse PBMC cells using anti-CD97/Adgre5 antibody (A30392-1). Overlay histogram showing mouse PBMC cells stained with A30392-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD97/Adgre5 Antibody (A30392-1, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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