

Anti-CD82 antigen CD82 Antibody

Catalog Number: PA1307

About CD82

CD82 (Cluster of Differentiation 82), also named KAI1, is a human protein encoded by the CD82 gene. The gene is mapped to 11p11.2. This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. The expression of CD82 protein appears to be correlated with lymph node metastasis in esophageal squamous cell carcinoma (ESCC). And the CD82 overexpression can suppress tumor invasiveness and metastatic potential by inducing MMP9 inactivation via upregulation of TIMP1.

Overview

Product Name	Anti-CD82 antigen CD82 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD82 antigen CD82 Antibody catalog # PA1307. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ .
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	P27701

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CD82, different from the related mouse and rat sequences by two amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Form	Liquid
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

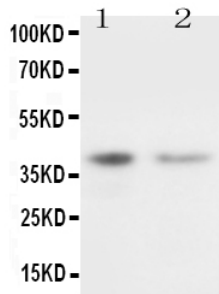
If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-CD82 antigen CD82 Antibody (PA1307) Images



Anti-CD82 antibody, PA1307, Western blotting
Lane 1: JURKAT Cell Lysate
Lane 2: HMY2 Cell Lysate

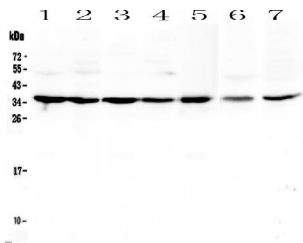


Figure 2. Western blot analysis of CD82 using anti-CD82 antibody (PA1307). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse liver tissue lysates,
Lane 2: mouse thymus tissue lysates,
Lane 3: rat brain tissue lysates,
Lane 4: rat thymus tissue lysates,
Lane 5: PC-12 whole Cell lysates,
Lane 6: A375 whole Cell lysates,
Lane 7: PANC-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-CD82 antigen affinity purified polyclonal antibody (Catalog # PA1307) 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 CD82 at approximately 35KD. The expected band size for CD82 is at 30KD.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-CD82 antigen CD82 Antibody