

## Anti-CPAMD8 Antibody Picoband™

Catalog Number: A12898

### About CPAMD8

CPAMD8 belongs to the complement component-3 (C3; 120700)/alpha-2-macroglobulin (A2M; 103950) family of proteins, which are involved in innate immunity and damage control. The encoded protein is membrane-associated and proteolytically processed to generate two chains. Mutations in this gene cause a form of anterior segment dysgenesis, a developmental disorder of the eye. By genomic sequence analysis, the CPAMD8 gene is mapped to chromosome 19p13.3-p13.2.

### Overview

Product Name	Anti-CPAMD8 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-CPAMD8 Antibody Picoband™ catalog # A12898. Tested in ELISA, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 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	Q8IZJ3

### Technical Details

Immunogen	E.coli-derived human CPAMD8 recombinant protein (Position: R58-D234).
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	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

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

Direct ELISA, 0.1-0.5ug/ml

## Anti-CPAMD8 Antibody Picoband™ (A12898) Images

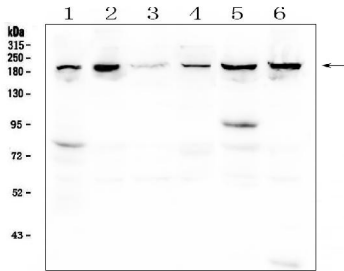


Figure 1. Western blot analysis of CPAMD8 using anti-CPAMD8 antibody (A12898). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,  
Lane 2: human T-47D whole cell lysates,  
Lane 3: human U2OS whole cell lysates,  
Lane 4: human K562 whole cell lysates,  
Lane 5: human THP-1 whole cell lysates,  
Lane 6: monkey COS-7 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-CPAMD8 antigen affinity purified polyclonal antibody (Catalog # A12898) 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 CPAMD8 at approximately 207KD. The expected band size for CPAMD8 is at 207KD.

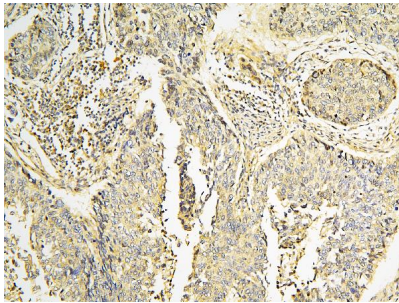


Figure 2. IHC analysis of CPAMD8 using anti-CPAMD8 antibody (A12898).

CPAMD8 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPAMD8 Antibody (A12898) 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.

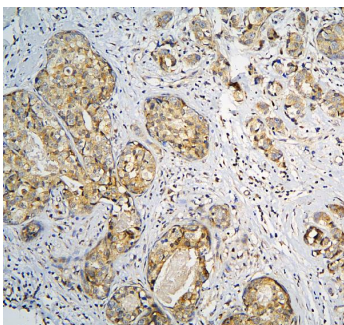


Figure 3. IHC analysis of CPAMD8 using anti-CPAMD8 antibody (A12898).

CPAMD8 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPAMD8 Antibody (A12898) 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.

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