

## 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

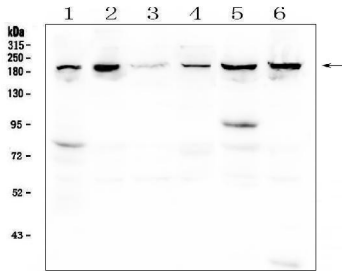
Product Name	Anti-CPAMD8 Antibody Picoband®
Reactive Species	Human, Monkey
Description	Boster Bio Anti-CPAMD8 Antibody Picoband® catalog # A12898. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Monkey. The brand Picoband indicates this is a premium antibody that guarantees superior 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, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
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

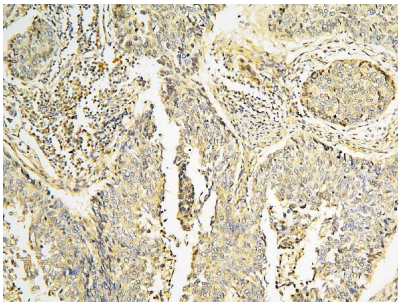
Immunogen	E.coli-derived human CPAMD8 recombinant protein (Position: R58-D234).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	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	Western blot, 0.1-0.5ug/ml, Human, Monkey Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human ELISA, 0.1-0.5ug/ml, -

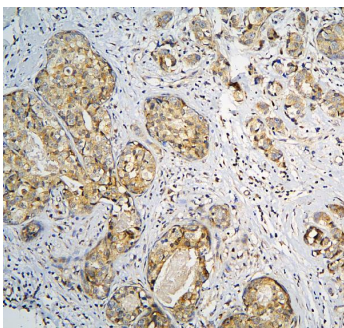
## Anti-CPAMD8 Antibody Picoband® (A12898) Images



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.



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.



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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