

Rabbit ADAM22 Polyclonal Antibody | anti-ADAM22 antibody

Anti-ADAM22 Antibody Picoband

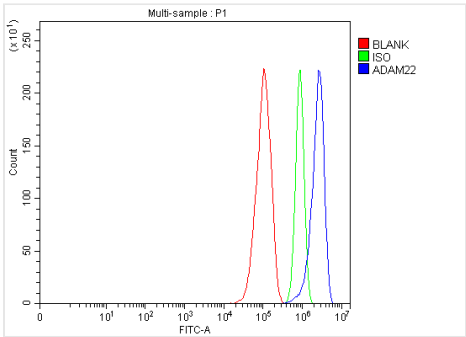
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126434	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ADAM22; Polyclonal Antibody; Anti-ADAM22 Antibody Picoband; anti-ADAM22 antibody

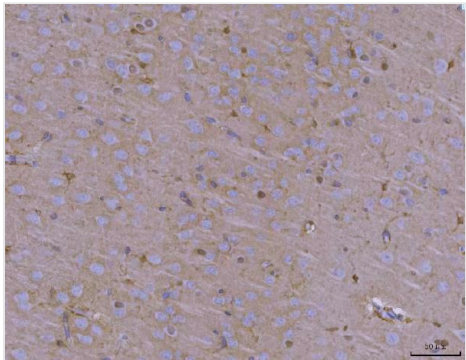
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ADAM22 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E-coli derived human ADAM22 recombinant protein (Position: S223-R829). Human ADAM22 shares 95.7% amino acids (aa) sequence identity with mouse ADAM22, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ADAM22 recombinant protein (Position: S223-R829).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



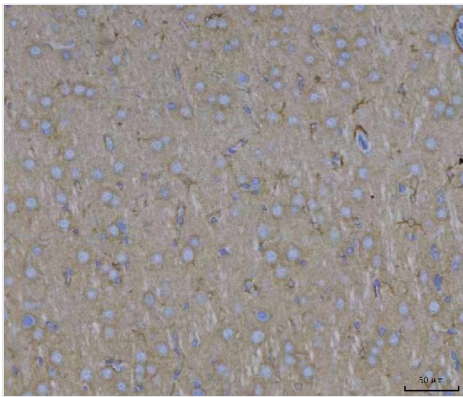
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of RT4 cells using anti-ADAM22 antibody (AAA126434).Overlay histogram showing RT4 cells stained with AAA126434 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ADAM22 Antibody (AAA126434, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



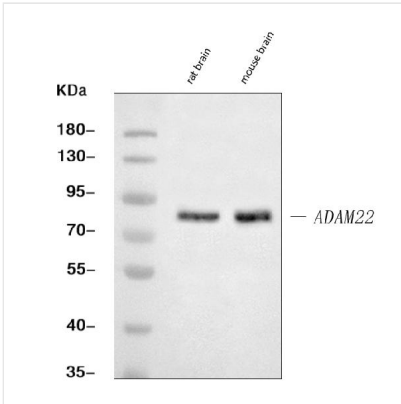
IHC (Immunohistochemistry)

Figure 2. IHC analysis of ADAM22 using anti-ADAM22 antibody (AAA126434).ADAM22 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was then incubated with 2 ug/ml rabbit anti-ADAM22 Antibody (AAA126434) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of ADAM22 using anti-ADAM22 antibody (AAA126434).ADAM22 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ADAM22 Antibody (AAA126434) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ADAM22 using anti-ADAM22 antibody (AAA126434).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 30 ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-ADAM22 antigen affinity purified polyclonal antibody (#AAA126434) at 0.5 ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for ADAM22 at approximately 80-90 kDa. The expected band size for ADAM22 is at 100 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAM22 antibody

Disintegrin and metalloproteinase domain-containing protein 22 also known as ADAM22 is an enzyme that in humans is encoded by the ADAM22 gene. This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. Unlike other members of the ADAM protein family, the protein encoded by this gene lacks metalloprotease activity since it has no zinc-binding motif. This gene is highly expressed in the brain and may function as an integrin ligand in the brain. In mice, it has been shown to be essential for correct myelination in the peripheral nervous system. Alternative splicing results in several transcript variants.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62204768
NCBI GeneID	53616
UniProt Accession #	Q9P0K1; O75075; O75076; Q9P0K2; Q9UIA1; Q9UKK2
Molecular Weight	100,269 Da
NCBI Official Full Name	ADAM22 protein
NCBI Official Synonym Full Names	ADAM metalloproteinase domain 22
NCBI Official Symbol	ADAM22
NCBI Official Synonym Symbols	MDC2; EIEE61; ADAM 22
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 22
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 22
UniProt Gene Name	ADAM22
UniProt Synonym Gene Names	MDC2; ADAM 22

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adam22-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126434>