

Rabbit anti-Mouse, Rat Afm Polyclonal Antibody | anti-Afm antibody

Anti-Afm Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125534	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Afm; Polyclonal Antibody; Anti-Afm Antibody; Afamin; Alpha-albumin; Alpha-Alb; afamin; anti-Afm antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Afm detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-Afm antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse Afm recombinant protein (Position: D40-K596).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of mouse spleen tissues using anti-Afm antibody (AAA125534). Overlay histogram showing mouse spleen tissues stained with AAA125534 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-Afm Antibody (AAA125534, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEPA1-6 cells using anti-Afm antibody (AAA125534). Overlay histogram showing HEPA1-6 cells stained with AAA125534 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Afm Antibody (AAA125534, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Afm using anti-Afm antibody (AAA125534). Afm was detected in paraffin-embedded section of rat liver 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 2µg/ml rabbit anti-Afm Antibody (AAA125534) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Afm using anti-Afm antibody (AAA125534). 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 50µg of sample under reducing conditions. Lane 1: rat heart tissue lysates Lane 2: rat liver tissue lysates Lane 3: rat kidney tissue lysates Lane 4: rat spleen tissue lysates Lane 5: mouse spleen tissue lysates Lane 6: mouse thymus tissue 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-Afm antigen affinity purified polyclonal antibody (Catalog # AAA125534) at 0.25 µg/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 Afm at approximately 87KD. The expected band size for Afm is at 87KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Afm antibody	Afamin is a protein that in humans is encoded by the AFM gene. This gene is a member of the albumin gene family, which is comprised of four genes that localize to chromosome 4 in a tandem arrangement. These four genes encode structurally-related serum transport proteins that are known to be evolutionarily related. The protein encoded by this gene is regulated developmentally, expressed in the liver and secreted into the bloodstream.
References	- Belanger, L., Roy, S., Allard, D. New albumin gene 3-prime adjacent to the alpha-1-fetoprotein locus. J. Biol. Chem. 269: 5481-5484, 1994. - Lichenstein, H. S., Lyons, D. E., Wurfel, M. M., Johnson, D. A., McGinley, M. D., Leidli, J. C., Trollinger, D. B., Mayer, J. P., Wright, S. D., Zukowski, M. M. Afamin is a new member of the albumin, alpha-fetoprotein, and vitamin D-binding protein gene family. J. Biol. Chem. 269: 18149-18154, 1994. - Nishio, H., Dugaiczky, A. Complete structure of the human alpha-albumin gene, a new member of the serum albumin multigene family. Proc. Nat. Acad. Sci. 93: 7557-7561, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	125347464
NCBI GeneID	280662
NCBI Accession #	NP_660128.2
NCBI GenBank Nucleotide #	NM_145146.2
UniProt Accession #	O89020; Q3UNV0; Q497E6; Q8R0J9
Molecular Weight	69,666 Da
NCBI Official Full Name	afamin
NCBI Official Synonym Full Names	afamin
NCBI Official Symbol	Afm
NCBI Official Synonym Symbols	Alf; alpha-Alb
NCBI Protein Information	afamin
UniProt Protein Name	Afamin
UniProt Gene Name	Afm
UniProt Synonym Gene Names	Alpha-Alb
UniProt Entry Name	AFAM_MOUSE

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/afm-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125534>