

Rabbit AFAP/AFAP1 Polyclonal Antibody | anti-AFAP1 antibody

Anti-AFAP/AFAP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125742	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AFAP/AFAP1; Polyclonal Antibody; Anti-AFAP/AFAP1 Antibody; AFAP1; AFAP; Actin filament-associated protein 1; 110 kDa actin filament-associated protein; AFAP-110; actin filament associated protein 1; anti-AFAP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for AFAP/AFAP1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-AFAP1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human AFAP/AFAP1 recombinant protein (Position: A498-T730).
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.



WB (Western Blot)

Figure 1. Western blot analysis of AFAP/AFAP1 using anti-AFAP/AFAP1 antibody (AAA125742).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 Hela whole cell lysatesLane 2: human SH-SY5Y whole cell lysatesLane 3: human A431 whole cell lysatesLane 4: human U-87MG whole cell lysatesLane 5: rat brain tissue lysatesLane 6: rat lung tissue lysatesLane 7: rat stomach tissue lysatesLane 8: mouse brain tissue lysatesLane 9: mouse lung tissue lysatesLane 10: mouse stomach tissue 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-AFAP/AFAP1 antigen affinity purified polyclonal antibody (Catalog # AAA125742) 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 AFAP/AFAP1 at approximately 120KD. The expected band size for AFAP/AFAP1 is at 120KD.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of AFAP/AFAP1 using anti-AFAP/AFAP1 antibody (AAA125742).AFAP/AFAP1 was detected in paraffin-embedded section of human lung cancer 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-AFAP/AFAP1 Antibody (AAA125742) 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-AFAP/AFAP1 antibody (AAA125742).Overlay histogram showing A549 cells stained with AAA125742 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-AFAP/AFAP1 Antibody (AAA125742, 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.



IF (Immunofluorescence)

Figure 5. IHC analysis of AFAP/AFAP1 using anti-AFAP/AFAP1 antibody (AAA125742).AFAP/AFAP1 was detected in paraffin-embedded section of human prostatic cancer 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-AFAP/AFAP1 Antibody (AAA125742) 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.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-AFAP/AFAP1 antibody (AAA125742).Overlay histogram showing U2OS cells stained with AAA125742 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-AFAP/AFAP1 Antibody (AAA125742, 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.

ADDITIONAL INFORMATION

Related Product Information for anti-AFAP1 antibody	Actin filament-associated protein 1 is a protein that in humans is encoded by the AFAP1 gene. The protein encoded by this gene is a Src binding partner. It may represent a potential modulator of actin filament integrity in response to cellular signals, and may function as an adaptor protein by linking Src family members and/or other signaling proteins to actin filaments. Multiple transcript variants encoding different isoforms have been found for this gene.
References	1. Baisden, J. M., Qian, Y., Zot, H. M., Flynn, D. C. The actin filament-associated protein AFAP-110 is an adaptor protein that modulates changes in actin filament integrity. Oncogene 20: 6435-6447, 2001. 2. Flynn, D. C., Leu, T. H., Reynolds, A. B., Parsons, J. T. Identification and sequence analysis of cDNAs encoding a 110-kilodalton actin filament-associated pp60src substrate. Molec. Cell Biol. 13: 7892-7900, 1993. 3. Kanner, S. B., Reynolds, A. B., Wang, H. -C. R., Vines, R. R., Parsons, J. T. The SH2 and SH3 domains of pp60src direct stable association with tyrosine phosphorylated proteins p130 and p110. EMBO J. 10: 1689-1698, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	197382472
NCBI GeneID	60312
NCBI Accession #	NP_001128119.1
NCBI GenBank Nucleotide #	NM_001134647.1
UniProt Accession #	Q8N556; Q59EY5; Q9HBY1; A8K442; B4DMU2; E9PDT7
Molecular Weight	80,725 Da
NCBI Official Full Name	actin filament-associated protein 1 isoform A
NCBI Official Synonym Full Names	actin filament associated protein 1
NCBI Official Symbol	AFAP1
NCBI Official Synonym Symbols	AFAP; AFAP110; AFAP-110
NCBI Protein Information	actin filament-associated protein 1; 110 kDa actin filament-associated protein; actin filament-associated protein, 110 kDa
UniProt Protein Name	Actin filament-associated protein 1
UniProt Gene Name	AFAP1
UniProt Synonym Gene Names	AFAP; AFAP-110
UniProt Entry Name	AFAP1_HUMAN

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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