

Rabbit anti-Human PDE4DIP Polyclonal Antibody | anti-PDE4DIP antibody

Anti-PDE4DIP Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126498	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

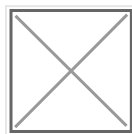
PRODUCT SYNONYMS

PDE4DIP; Polyclonal Antibody; Anti-PDE4DIP Antibody Picoband; anti-PDE4DIP antibody

PRODUCT SPECIFICATIONS

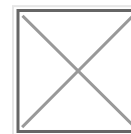
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PDE4DIP antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human PDE4DIP recombinant protein (Position: Q96-M1254).
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of A549 cells using anti-PDE4DIP antibody (AAA126498). Overlay histogram showing A549 cells stained with AAA126498 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDE4DIP Antibody (AAA126498, 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.



IF (Immunofluorescence)

Figure 4. IF analysis of PDE4DIP using anti-PDE4DIP antibody (AAA126498). PDE4DIP was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-PDE4DIP Antibody (AAA126498) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



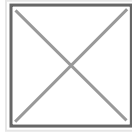
IHC (Immunohistochemisry)

Figure 3. IHC analysis of PDE4DIP using anti-PDE4DIP antibody (AAA126498).PDE4DIP was detected in a paraffin-embedded section of human placenta 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-PDE4DIP Antibody (AAA126498) 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.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PDE4DIP using anti-PDE4DIP antibody (AAA126498).PDE4DIP was detected in a paraffin-embedded section of human colorectal cancer 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-PDE4DIP Antibody (AAA126498) 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 PDE4DIP using anti-PDE4DIP antibody (AAA126498).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: human Hela whole cell lysates,Lane 2: human HEK293 whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human U-87MG whole cell 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-PDE4DIP antigen affinity purified polyclonal antibody (#AAA126498) 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 PDE4DIP at approximately 150 kDa. The expected band size for PDE4DIP is at 150 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PDE4DIP antibody	Myomegalin, also known as phosphodiesterase 4D-interacting protein or cardiomyopathy-associated protein 2, is a protein that in humans is encoded by the PDE4DIP gene. The protein encoded by this gene serves to anchor phosphodiesterase 4D to the Golgi/centrosome region of the cell. Defects in this gene may be a cause of myeloproliferative disorder (MBD) associated with eosinophilia. Several transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-PDE4DIP antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	305410866
NCBI GeneID	9659
NCBI Accession #	NP_001182190
NCBI GenBank Nucleotide #	NM_001002810
UniProt Accession #	Q5VU43 ; Q75042 ; Q75065 ; Q2YDC1 ; Q5VU42 ; Q5VU44 ; Q5VU45 ; Q5VU46 ; Q5VU47 ; Q5VU48 ; Q5VU49 ; A2RU15
Molecular Weight	28,507 Da
NCBI Official Full Name	myomegalin isoform 7
NCBI Official Synonym Full Names	phosphodiesterase 4D interacting protein
NCBI Official Symbol	PDE4DIP
NCBI Official Synonym Symbols	MMGL; CMYA2

NCBI Protein Information	myomegalin; cardiomyopathy-associated protein 2; myomegalin/phosphodiesterase 4D interacting protein variant 8
UniProt Protein Name	Myomegalin
UniProt Gene Name	PDE4DIP
UniProt Synonym Gene Names	CMYA2; KIAA0454; KIAA0477; MMGL
UniProt Entry Name	MYOME_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pde4dip-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/126498>