

Rabbit CD69 Polyclonal Antibody | anti-CD69 antibody

Anti-CD69 Antibody

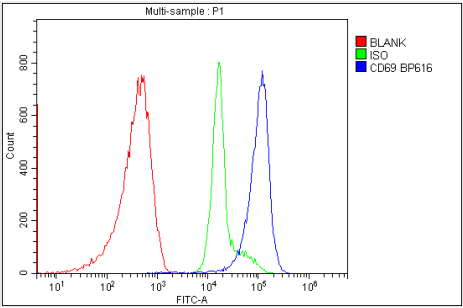
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125556	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CD69; Polyclonal Antibody; Anti-CD69 Antibody; Early activation antigen CD69; Activation inducer molecule; AIM; BL-AC/P26; C-type lectin domain family 2 member C; EA1; Early T-cell activation antigen p60; GP32/28; Leukocyte surface antigen Leu-23; MLR-3; CD antigen CD69; CLEC2C; CD69 molecule; anti-CD69 antibody

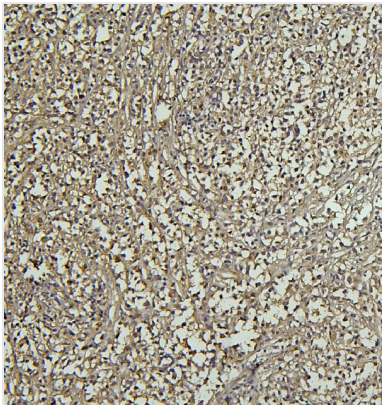
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CD69 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-CD69 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human CD69 recombinant protein (Position: T101-E148).
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.



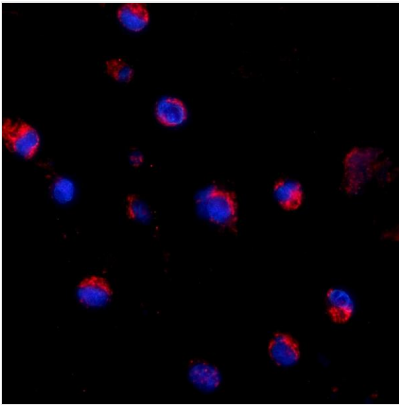
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of human PBMC cells using anti-CD69 antibody (AAA125556).Overlay histogram showing human PBMC cells stained with AAA125556 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD69 Antibody (AAA125556,1μg/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.



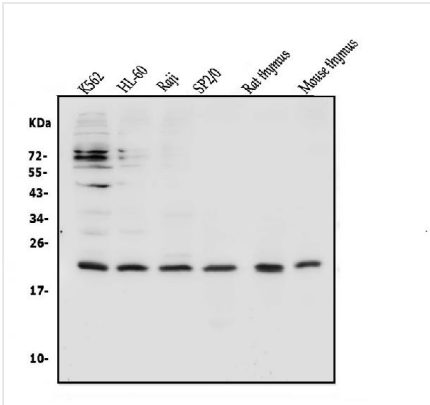
IHC (Immunohistochemistry)

Figure 2. IHC analysis of CD69 using anti-CD69 antibody (AAA125556).CD69 was detected in paraffin-embedded section of human B lymphocytic tumor 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 1μg/ml rabbit anti-CD69 Antibody (AAA125556) 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.



IF (Immunofluorescence)

Figure 3. IF analysis of CD69 using anti-CD69 antibody (AAA125556).CD69 was detected in immunocytochemical section of K562 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4μg/mL rabbit anti-CD69 Antibody (AAA125556) overnight at 4 degree C. DyLight®594 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.



WB (Western Blot)

Figure 1. Western blot analysis of CD69 using anti-CD69 antibody (AAA125556).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 K562 whole cell lysatesLane 2: human HL-60 whole cell lysatesLane 3: human Raji whole cell lysatesLane 4: mouse SP2/0 whole cell lysatesLane 5: rat thymus tissue lysatesLane 6: mouse thymus 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-CD69 antigen affinity purified polyclonal antibody (Catalog # AAA125556) at 0. 5 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 1:10000 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 CD69 at approximately 22KD. The expected band size for CD69 is at 22KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD69 antibody

This gene encodes a member of the calcium dependent lectin superfamily of type II transmembrane receptors. Expression of the encoded protein is induced upon activation of T lymphocytes, and may play a role in proliferation. Furthermore, the protein may act to transmit signals in natural killer cells and platelets.

References	1. Cambiaggi, C., Scupoli, M. T., Cestari, T., Gerosa, F., Carra, G., Tridente, G., Accolla, R. S. Constitutive expression of CD69 in interspecies T-cell hybrids and locus assignment to human chromosome 12. Immunogenetics 36: 117-120, 1992. 2. Esplugues, E., Sancho, D., Vega-Ramos, J., Martinez-A, C., Syrbe, U., Hamann, A., Engel, P., Sanchez-Madrid, F., Lauzurica, P. Enhanced antitumor immunity in mice deficient in CD69. J. Exp. Med. 197: 1093-1106, 2003. 3. Sancho, D., Gomez, M., Viedma, F., Esplugues, E., Gordon-Alonso, M., Garcia-Lopez, M. A., de la Fuente, H., Martinez-A, C., Lauzurica, P., Sanchez-Madrid, F. CD69 downregulates autoimmune reactivity through active transforming growth factor-beta production in collagen-induced arthritis. J. Clin. Invest. 112: 872-882, 2003.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	584906
NCBI GeneID	969
UniProt Accession #	Q07108
Molecular Weight	22,559 Da
NCBI Official Full Name	Early activation antigen CD69
NCBI Official Synonym Full Names	CD69 molecule
NCBI Official Symbol	CD69
NCBI Official Synonym Symbols	AIM; EA1; MLR-3; CLEC2C; GP32/28; BL-AC/P26
NCBI Protein Information	early activation antigen CD69; leukocyte surface antigen Leu-23; early T-cell activation antigen p60; early lymphocyte activation antigen; activation inducer molecule (AIM/CD69); C-type lectin domain family 2, member C; CD69 antigen (p60, early T-cell act
UniProt Protein Name	Early activation antigen CD69
UniProt Gene Name	CD69
UniProt Synonym Gene Names	CLEC2C; AIM
UniProt Entry Name	CD69_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.