

Rabbit anti-Mouse, Rat CD226 Polyclonal Antibody | anti-Cd226 antibody

Anti-CD226 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125589	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

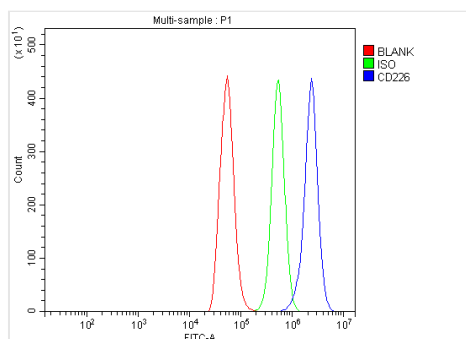
PRODUCT SYNONYMS

CD226; Polyclonal Antibody; Anti-CD226 Antibody; Cd226; Pta1; CD226 antigen; Platelet and T-cell activation antigen 1; CD antigen CD226; anti-Cd226 antibody

PRODUCT SPECIFICATIONS

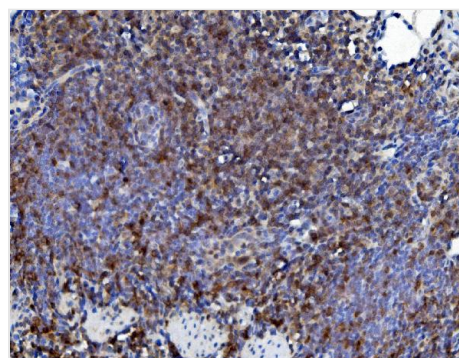
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CD226 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-Cd226 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse CD226 recombinant protein (Position: E31-L333).
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



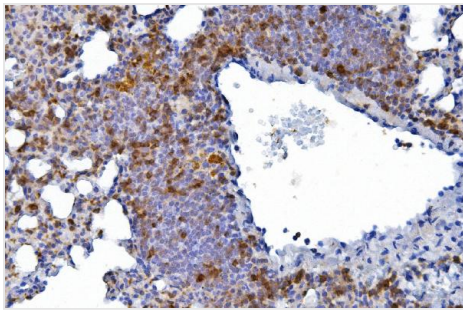
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of NRK cells using anti-CD226 antibody (AAA125589). Overlay histogram showing NRK cells stained with AAA125589 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD226 Antibody (AAA125589, 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.



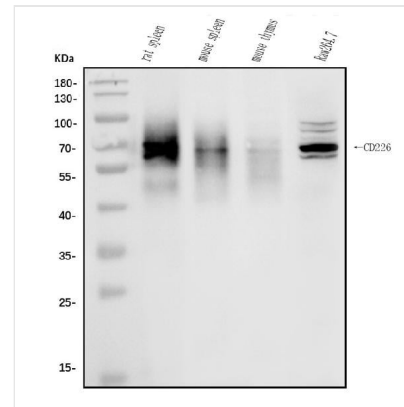
IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD226 using anti-CD226 antibody (AAA125589). CD226 was detected in paraffin-embedded section of rat lung lymphaden 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-CD226 Antibody (AAA125589) 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 (Immunohistochemistry)

Figure 2. IHC analysis of CD226 using anti-CD226 antibody (AAA125589). CD226 was detected in paraffin-embedded section of mouse lung 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 2 µg/ml rabbit anti-CD226 Antibody (AAA125589) 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 CD226 using anti-CD226 antibody (AAA125589). 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 µg of sample under reducing conditions. Lane 1: rat spleen tissue lysates; Lane 2: mouse spleen tissue lysates; Lane 3: mouse thymus tissue lysates; Lane 4: mouse Raw264.7 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-CD226 antigen affinity purified polyclonal antibody (Catalog # AAA125589) 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 1:5000 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 CD226 at approximately 70KD. The expected band size for CD226 is at 70KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD226 antibody	DNAM 1, also known as CD226, is a receptor expressed by peripheral blood T lymphocytes that is involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T lymphocytes. DNAM 1 is broadly expressed on T cells, NK cells, platelets, monocytes and a subset of B cells. DNAM-1 is also expressed by a subset of CD3 positive thymocytes. This antibody is reported to inhibit T- and NK cell mediated cytotoxicity against tumour cell targets and to block TNF alpha and IFN gamma secretion by alloantigen-specific T-cells.
References	1. Bottino, C., Castriconi, R., Pende, D., Rivera, P., Nanni, M., Carnemolla, B., Cantoni, C., Grassi, J., Marcenaro, S., Reymond, N., Vitale, M., Moretta, L., Lopez, M., Moretta, A. Identification of PVR (CD155) and nectin-2 (CD112) as cell surface ligands for the human DNAM-1 (CD226) activating molecule. <i>J. Exp. Med.</i> 198: 557-567, 2003. 2. Iguchi-Manaka, A., Kai, H., Yamashita, Y., Shibata, K., Tahara-Hanaoka, S., Honda, S., Yasui, T., Kikutani, H., Shibuya, K., Shibuya, A. Accelerated tumor growth in mice deficient in DNAM-1 receptor. <i>J. Exp. Med.</i> 205: 2959-2964, 2008. 3. Liu, J., Qian, X., Chen, Z., Xu, X., Gao, F., Zhang, S., Zhang, R., Qi, J., Gao, G. F., Yan, J. Crystal structure of cell adhesion molecule nectin-2/CD112 and its binding to immune receptor DNAM-1/CD226. <i>J Immun.</i> 188: 5511-5520, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	85540456
NCBI GeneID	225825
NCBI Accession #	NP_848802.2
NCBI GenBank Nucleotide #	NM_178687.2
UniProt Accession #	Q8K4F0
Molecular Weight	38,063 Da
NCBI Official Full Name	CD226 antigen isoform a
NCBI Official Synonym Full Names	CD226 antigen

NCBI Official Symbol	Cd226
NCBI Official Synonym Symbols	Pta1; DNAM1; DNAM-1; TLISA1; BC051526
NCBI Protein Information	CD226 antigen; platelet and T cell activation antigen 1; platelet and T-cell activation antigen 1
UniProt Protein Name	CD226 antigen
UniProt Gene Name	Cd226
UniProt Synonym Gene Names	Pta1
UniProt Entry Name	CD226_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/cd226-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125589>