

Rabbit anti-Mouse, Rat CD82 Polyclonal Antibody | anti-Cd82 antibody

Anti-CD82 Antibody

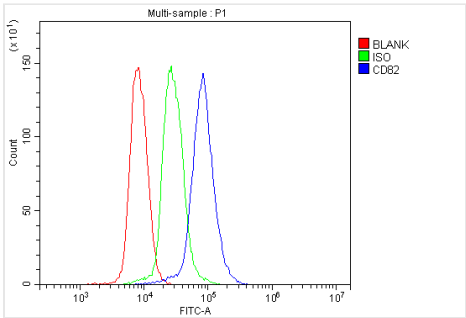
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125647	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

CD82; Polyclonal Antibody; Anti-CD82 Antibody; Cd82; Kai1; CD82 antigen; C33 antigen; IA4; Inducible membrane protein R2; Metastasis suppressor Kangai-1 homolog; CD antigen CD82; anti-Cd82 antibody

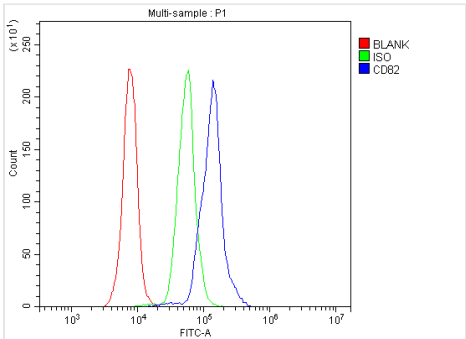
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CD82 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-Cd82 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived mouse CD82 recombinant protein (Position: V32-Y266).
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.



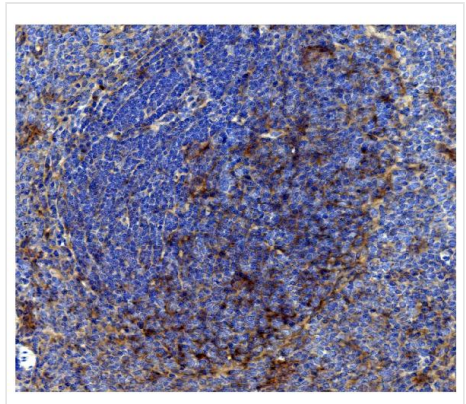
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of mouse spleen tissues using anti-CD82 antibody (AAA125647).Overlay histogram showing mouse spleen tissues stained with AAA125647 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD82 Antibody (AAA125647,1μg/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.



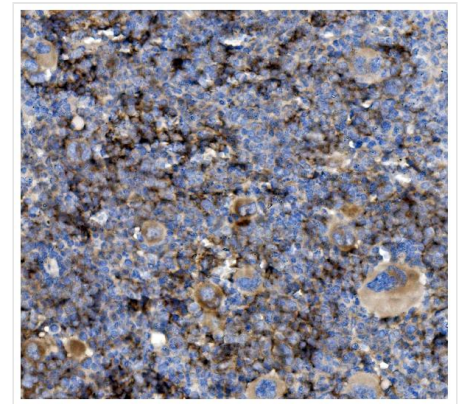
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of mouse PBMC cells using anti-CD82 antibody (AAA125647).Overlay histogram showing mouse PBMC cells stained with AAA125647 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD82 Antibody (AAA125647,1μg/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 CD82 using anti-CD82 antibody (AAA125647).CD82 was detected in paraffin-embedded section of rat spleen 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-CD82 Antibody (AAA125647) 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 1. IHC analysis of CD82 using anti-CD82 antibody (AAA125647).CD82 was detected in paraffin-embedded section of mouse spleen 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-CD82 Antibody (AAA125647) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-CD82 antibody

CD82(Cluster of Differentiation 82), also named KA11, is a human protein encoded by the CD82 gene. The gene is mapped to 11p11. 2. This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. The expression of CD82 protein appears to be correlated with lymph node metastasis in esophageal squamous cell carcinoma(ESCC). And the CD82 overexpression can suppress tumor invasiveness and metastatic potential by inducing MMP9 inactivation via upregulation of TIMP1.

References	1. Dong, J. -T.; Lamb, P. W.; Rinker-Schaeffer, C. W.; Vukanovic, J.; Ichikawa, T.; Isaacs, J. T.; Barrett, J. C. : KAI1, a metastasis suppressor gene for prostate cancer on human chromosome 11p11. 2. Science 268: 884-886, 1995. 2. Mashimo, T.; Watabe, M.; Hirota, S.; Hosobe, S.; Miura, K.; Tegtmeier, P. J.; Rinker-Schaeffer, C. W.; Watabe, K. : The expression of the KAI1 gene, a tumor metastasis suppressor, is directly activated by p53. Proc. Nat. Acad. Sci. 95: 11307-11311, 1998. 3. Miyazaki, T.; Kato, H.; Shitara, Y.; Yoshikawa, M.; Tajima, K.; Masuda, N.; Shouji, H.; Tsukada, K.; Nakajima, T.; Kuwano, H. : Mutation and expression of the metastasis suppressor gene KAI1 in esophageal squamous cell carcinoma. Cancer 89: 955-962, 2000. 4. Jee, B. K.; Park, K. M.; Surendran, S.; Lee, W. K.; Han, C. W.; Kim, Y. S.; Lim, Y. : KAI1/CD82 suppresses tumor invasion by MMP9 inactivation via TIMP1 up-regulation in the H1299 human lung carcinoma cell line. Biochem. Biophys. Res. Commun. 342: 655-661, 2006.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209862915
NCBI GeneID	12521
NCBI Accession #	NP_001129527.1
NCBI GenBank Nucleotide #	NM_001136055.2
UniProt Accession #	P40237
Molecular Weight	29,629 Da
NCBI Official Full Name	CD82 antigen
NCBI Official Synonym Full Names	CD82 antigen
NCBI Official Symbol	Cd82
NCBI Official Synonym Symbols	C33; IA4; Kai1; Tspan27; AA682076; AL023070
NCBI Protein Information	CD82 antigen; C33 antigen; inducible membrane protein R2; metastasis suppressor Kangai-1 homolog; kangai 1 (suppression of tumorigenicity 6, prostate)
UniProt Protein Name	CD82 antigen
UniProt Gene Name	Cd82
UniProt Synonym Gene Names	Kai1
UniProt Entry Name	CD82_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/cd82-antibody-direct-elisa-flow-cytometry-immunohistochemistry-elisa/125647>