

Rabbit anti-Human CD82 Polyclonal Antibody | anti-CD82 antibody

Anti-CD82 Antibody, Rabbit Polyclonal

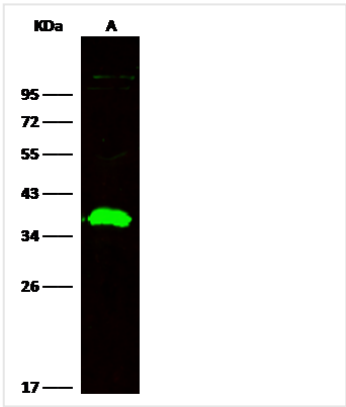
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255555	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CD82; Polyclonal Antibody; Anti-CD82 Antibody; Rabbit Polyclonal; CD82/KAI-1 Antibody; Rabbit PAb; Antigen Affinity Purified; CD82 molecule; Anti-4F9 Antibody; Anti-C33 Antibody; Anti-GR15 Antibody; Anti-IA4 Antibody; Anti-KAI-1 Antibody; Anti-KAI1 Antibody; Anti-R2 Antibody; Anti-SAR2 Antibody; Anti-ST6 Antibody; Anti-TSPAN27 Antibody; anti-CD82 antibody

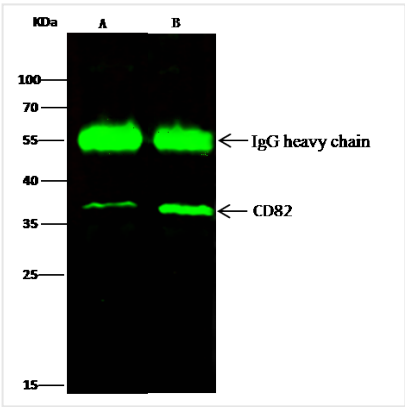
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CD82/KAI-1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD82 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human CD82/KAI-1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CD82/KAI-1 (rh CD82/KAI-1). CD82/KAI-1 specific IgG was purified by Human CD82/KAI-1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



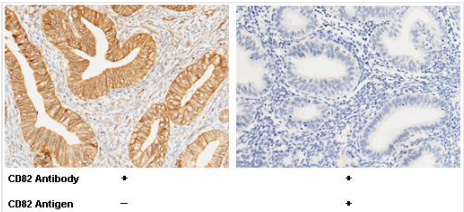
WB (Western Blot)

Anti-CD82 rabbit polyclonal antibody at 1:500 dilutionLane A: A549 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:30 kDaObserved band size:32 kDa(We are unsure as to the identity of these extra bands.



IP (Immunoprecipitation)

CD82 was immunoprecipitated using:Lane A:0.5 mg A549 Whole Cell LysateLane B:0.5 mg U87MG Whole Cell Lysate2 uL anti-CD82 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-CD82 rabbit polyclonal antibody,at 1:500 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 30 kDaObserved band size: 36 kDa



IHC (Immunohistochemistry)

Immunochemical staining of human CD82 in human endometrium with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of epithelium in uterine-gland. The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).

ADDITIONAL INFORMATION

Related Product Information for anti-CD82 antibody	CD82, also known as KAI-1, structurally belongs to tetraspanin family while categorised as metastasis suppressor gene on functional grounds. KAI1/CD82 is localized on cell membrane and form interactions with other tetraspanins, integrins and chemokines which are respectively responsible for cell migration, adhesion and signalling. Downregulation of CD82 expression is associated with the advanced stages of many human cancers and correlates with the acquisition of metastatic potential. Recent studies suggest that complex mechanisms underlie CD82 loss of function, including altered transcriptional regulation, splice variant production and post-translational protein modifications, and indicate a central role for CD82 in controlling metastasis as a 'molecular facilitator'. The loss of KAI1/CD82 expression in invasive and metastatic cancers is due to a complex, epigenetic mechanism that probably involves transcription factors such as NFkappaB, p53, and beta-catenin. A loss of KAI1 expression is also associated with the advanced stages of many human malignancies and results in the acquisition of invasive and metastatic capabilities by tumour cells. Thus, KAI1/CD82 is regarded as a wide-spectrum tumor metastasis suppressor.
References	Malik FA, et al. (2009) KAI-1/CD82, the molecule and clinical implication in cancer and cancer metastasis. Histol Histopathol. 24(4): 519-30.Liu WM, et al. (2006) KAI1/CD82, a tumor metastasis suppressor. Cancer Lett. 240(2): 183-94.Tonoli H, et al. (2006) CD82 metastasis suppressor gene: a potential target for new therapeutics? Trends Mol Med. 11(12): 563-70.Jackson P, et al. (2005) KAI1 tetraspanin and metastasis suppressor. Int J Biochem Cell Biol. 37(3): 530-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504813
NCBI GeneID	3732

NCBI Accession #	NP_002222
NCBI GenBank Nucleotide #	NM_002231.3
UniProt Accession #	P27701 ; Q7Z2D4 ; Q7Z5N2 ; D3DQN6 ; E9PC70
Molecular Weight	26,818 Da
NCBI Official Full Name	CD82 antigen isoform 1
NCBI Official Synonym Full Names	CD82 molecule
NCBI Official Symbol	CD82
NCBI Official Synonym Symbols	R2; 4F9; C33; IA4; ST6; GR15; KAI1; SAR2; TSPAN27
NCBI Protein Information	CD82 antigen; tspan-27; C33 antigen; tetraspanin-27; inducible membrane protein R2; metastasis suppressor Kangai-1; kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))
UniProt Protein Name	CD82 antigen
UniProt Gene Name	CD82
UniProt Synonym Gene Names	KAI1; SAR2; ST6; TSPAN27; Tspan-27
UniProt Entry Name	CD82_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd82-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255555>