

Human CD82/KAI-1 ELISA Kit | CD82/KAI-1 elisa kit

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CATALOG #
AAA258448

REACTIVITY
Human

PRODUCT SYNONYMS

CD82/KAI-1; Human CD82/KAI-1 ELISA Kit; CD82 ELISA Kit; Human; CD82 molecule; 4F9 ELISA Kit; C33 ELISA Kit; GR15 ELISA Kit; IA4 ELISA Kit; KAI-1 ELISA Kit; KAI1 ELISA Kit; R2 ELISA Kit; SAR2 ELISA Kit; ST6 ELISA Kit; TSPAN27 ELISA Kit; CD82/KAI-1 elisa kit

PRODUCT SPECIFICATIONS

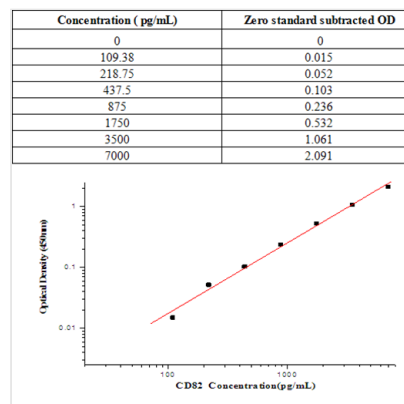
Reactivity	Human
Specificity	The kit has been verified by high purity Human CD82/KAI-1 recombinant protein.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Recombinant protein
Detection Range	109.38-7000pg/mL
Sensitivity	97.61pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
CD81	CD63	CD9	

Application Data

This assay recognizes recombinant Human CD82. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for CD82/KAI-1 elisa kit	This CD82 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human CD82 protein in Recombinant protein. It contains recombinant Human CD82, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: 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. <i>Histol Histopathol.</i> 24(4): 519-30. Liu WM, et al. (2006) KAI1/CD82, a tumor metastasis suppressor. <i>Cancer Lett.</i> 240(2): 183-94. Tonoli H, et al. (2006) CD82 metastasis suppressor gene: a potential target for new therapeutics. <i>Trends Mol Med.</i> 11(12): 563-70. Jackson P, et al. (2005) KAI1 tetraspanin and metastasis suppressor. <i>Int J Biochem Cell Biol.</i> 37(3): 530-4.

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.