



Rabbit Anti-Human CD82 monoclonal antibody, clone S182 (CABT-ZB466)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human CD82
Target	CD82
Immunogen	Recombinant Human CD82/KAI-1 protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	S182
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB466 - CABT-ZB853 This antibody will detect CD82 in antibody pair set. [ABPR-ZB041]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human CD82 / KAI-1.
Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 1 mL

Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	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.
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Keywords	CD82; CD82 molecule; R2; 4F9
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GENE INFORMATION

Synonyms	CD82; CD82 molecule; R2; 4F9; C33; IA4; ST6; GR15; KAI1; SAR2
Entrez Gene ID	3732
UniProt ID	P27701