

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD82/Kai-1. Stains human CD82/Kai-1 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 423524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD82/Kai-1 Met1-Tyr267 Accession # AAH01821
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human whole blood granulocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD82, also known as KAI1, C33 and TSPAN27, is a widely expressed palmitoylated molecule in the tetraspanin superfamily. CD82 is synthesized as a 28 kDa core protein with mature molecular weights ranging up to 70 kDa due to variable glycosylation. CD82 functions as a suppressor of metastasis and is down-regulated in many malignant tumors. It associates with IGSF8, DARC, the ganglioside GM2, and the HTLV-1 Gag protein. CD82 inhibits cell migration and metastasis by preventing integrin maturation and blocking integrin interactions with Met. Human CD82 shares 76% aa sequence identity with mouse and rat CD82.

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