

DESCRIPTION

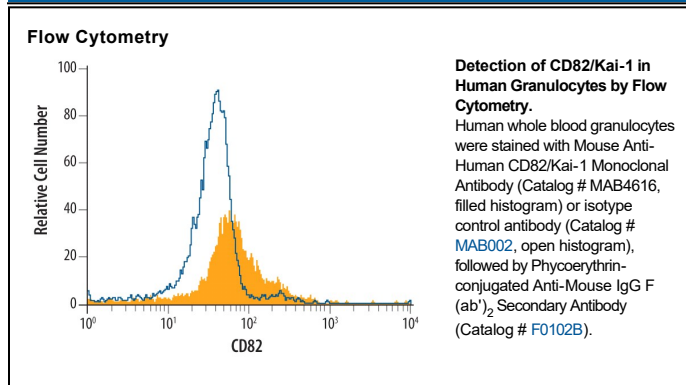
Species Reactivity	Human
Specificity	Detects human CD82/Kai-1. Stains human CD82/Kai-1 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 423524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD82/Kai-1 Met1-Tyr267 Accession # AAH01821
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.