

TECHNICAL DATA SHEET

CyFlow™ CD84 PE **Anti-Hu; Clone CD84.1.21**

REF AS246227

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD84
Alternative Names	SLAMF5
Clone	CD84.1.21
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	CD84-transfected 300.19 cell line

Specificity

The mouse monoclonal antibody CD84.1.21 recognizes CD84 antigen, a single chain cell surface glycoprotein of 64-82 kDa, predominantly expressed B cells, monocytes, platelets and some T cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD84 is a highly glycosylated homophilic receptor of SLAM family. It is expressed on platelets and various types of leukocytes, especially following their activation. Ligation of CD84 leads to its phosphorylation on tyrosine residues within the cytoplasmic tail. These docking sites are recognized by downstream signaling molecules, such as phosphatase SHP-2 and adaptor protein SAP/SH2D1A. The function of CD84 has not been fully elucidated yet. Although predominantly activating receptor, its modulating activity was also demonstrated.

References

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- Morra M, Simarro-Grande M, Martin M, Chen AS, Lanyi A, Silander O, Calpe S, Davis J, Pawson T, Eck MJ, Sumegi J, Engel P, Li SC, Terhorst C: Characterization of SH2D1A missense mutations identified in X-linked lymphoproliferative disease patients. J Biol Chem. 2001 Sep 28; 276(39):36809-16. < PMID: 11477068 >
- Martin M, Romero X, de la Fuente MA, Tovar V, Zapater N, Esplugues E, Pizcueta P, Bosch J, Engel P: CD84 functions as a homophilic adhesion molecule and enhances IFN-gamma secretion: adhesion is mediated by Ig-like domain 1. J Immunol. 2001 Oct 1; 167(7):3668-76. < PMID: 11564780 >

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- Morra M, Lu J, Poy F, Martin M, Sayos J, Calpe S, Gullo C, Howie D, Rietdijk S, Thompson A, Coyle AJ, Denny C, Yaffe MB, Engel P, Eck MJ, Terhorst C: Structural basis for the interaction of the free SH2 domain EAT-2 with SLAM receptors in hematopoietic cells. EMBO J. 2001 Nov 1; 20(21):5840-52. < PMID: 11689425 >
- Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P: CD229 (Ly{09} lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocates to the immunological synapse. J Immunol. 2005 Jun 1; 174(11):7033-42. < PMID: 15905546 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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