EXBIO Antibodies

PRODUCT DATA SHEET

11-661-C025

Monoclonal Antibody to CD84 Purified Antibody (0.025 mg)

Clone:	CD84.1.21
Isotype:	Mouse IgG2a
Specificity:	The mouse monoclonal antibody CD84.1.21 recognizes CD84, a single chain cell surface glycoprotein of 64-82 kDa, predominantly expressed B cells, monocytes, platelets and some T cells.
Regulatory Status:	RUO
Immunogen:	CD84-transfected 300.19 cell line
Species Reactivity:	Human
Application:	Flow Cytometry Immunoprecipitation Functional Application Enhancement of CD3-induced IFN-gamma production
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz

References:

*Sayós J, Martín M, Chen A, Simarro M, Howie D, Morra M, Engel P, Terhorst C: Cell surface receptors Ly-9 and CD84 recruit the X-linked lymphoproliferative disease gene product SAP. Blood. 2001 Jun 15;97(12):3867-74.

*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.

*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.

*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.

*Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P: CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. J Immunol. 2005 Jun 1;174(11):7033-42.

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