10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CD84 Reference Antibody (City of Hope patent anti-CD84)

Catalog # APR11430

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q9UIB8
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	38782

Additional Information

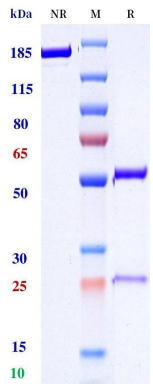
Target/Specificity	CD84
Expression system	CHO

Protein Information

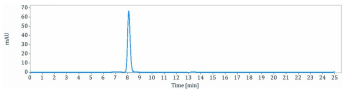
Name	CD84
Synonyms	SLAMF5
Function	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Can mediate natural killer (NK) cell cytotoxicity dependent on SH2D1A and SH2D1B (By similarity). Increases proliferative responses of activated T-cells and SH2D1A/SAP does not seem be required for this process. Homophilic interactions enhance interferon gamma/IFNG secretion in lymphocytes and induce platelet stimulation via a SH2D1A-dependent pathway. May serve as a marker for hematopoietic progenitor cells (PubMed:11564780, PubMed:12115647, PubMed:12928397, PubMed:12962726, PubMed:16037392) Required for a prolonged T-cell:B-cell contact, optimal T follicular helper function, and germinal center formation. In germinal centers involved in maintaining B-cell tolerance and in preventing autoimmunity (By similarity). In mast cells negatively regulates high affinity immunoglobulin epsilon receptor signaling; independent of SH2D1A and SH2D1B but implicating FES and PTPN6/SHP-1 (PubMed:22068234). In macrophages enhances LPS-induced MAPK phosphorylation and NF-kappaB activation and modulates LPS-induced cytokine secretion; involving ITSM 2 (By similarity). Positively regulates macroautophagy in primary dendritic cells via

	stabilization of IRF8; inhibits TRIM21-mediated proteasomal degradation of IRF8 (PubMed:29434592).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Predominantly expressed in hematopoietic tissues, such as lymph node, spleen and peripheral leukocytes. Expressed in macrophages, B-cells, monocytes, platelets, thymocytes, T-cells and dendritic cells. Highly expressed in memory T-cells. Expressed in mast cells.

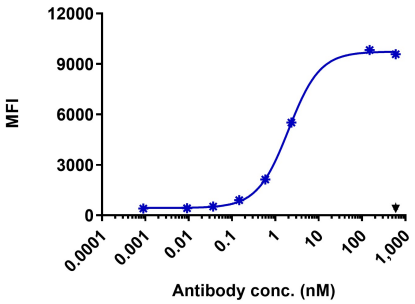
Images



Anti-CD84 Reference Antibody (City of Hope patent anti-CD84) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-CD84 Reference Antibody (City of Hope patent anti-CD84) is 98.14%, determined by SEC-HPLC.



PLVX-puro-FL cell line were stained with City of Hope patent anti-CD84 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 2.014 nM.

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