



Rat Anti-Mouse LFA-1 α (CD11a) Monoclonal antibody, clone M17/4 (CABT-L4341)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The M17/4 monoclonal antibody reacts with mouse LFA-1 α (lymphocyte function-associated antigen 1 alpha) also known as integrin alpha L chain and CD11a. LFA-1 α and CD18 combine to form LFA-1, a 180 kDa glycoprotein and a member of the integrin family
Target	Mouse LFA-1 α (CD11a)
Immunogen	C57BL/6 mouse splenic secondary cytotoxic T cells
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	M17/4
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo LFA-1 neutralization, FC
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg

Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The M17/4 monoclonal antibody reacts with mouse LFA-1α (lymphocyte function-associated antigen 1 alpha) also known as integrin alpha L chain and CD11a. LFA-1α and CD18 combine to form LFA-1, a 180 kDa glycoprotein and a member of the integrin family. LFA-1 is expressed on the surface of all leukocytes including lymphocytes, monocytes, macrophages, and granulocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50), and also functions in lymphocyte costimulatory signaling.
Keywords	ITGAL;integrin alpha-L;LFA-1A;antigen CD11A;CD11 antigen-like family member A;lymphocyte function-associated antigen 1, alpha;leukocyte adhesion glycoprotein LFA-1 alpha chain;leukocyte function-associated molecule 1 alpha chain;

GENE INFORMATION

Official Symbol	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
Synonyms	ITGAL; integrin alpha-L; LFA-1A; antigen CD11A; CD11 antigen-like family member A; lymphocyte function-associated antigen 1, alpha; leukocyte adhesion glycoprotein LFA-1 alpha chain; leukocyte function-associated molecule 1 alpha chain;
References	Glatigny, S., et al. (2015). "Integrin alpha L controls the homing of regulatory T cells during CNS autoimmunity in the absence of integrin alpha 4." Sci Rep 5: 7834. PubMed;Pearl, J. I., et al. (2011). "Short-term immunosuppression promotes engraftment of embryonic and induced pluripotent stem cells." Cell Stem Cell 8(3): 309-317. PubMed;Rothhammer, V., et al. (2011). "Th17 lymphocytes traffic to the central nervous system independently of alpha4 integrin expression during EAE." J Exp Med 208(12): 2465-2476. PubMed;Thomas, S. Y., et al. (2011). "PLZF induces an intravascular surveillance program mediated by long-lived LFA-1-ICAM-1 interactions." J Exp Med 208(6): 1179-1188. PubMed;