



Mouse Anti-Human CD11a (LFA-1α) Monoclonal antibody, clone R7-1 (CABT-L4465)

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

PRODUCT INFORMATION

Product Overview

The R7-1 monoclonal antibody reacts with human LFA-1α (lymphocyte function-associated antigen 1 alpha) also known as integrin alpha L chain and CD11a. Specifically, this antibody recognizes an epitope within the I-domain of LFA-1α. 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. The R7-1 antibody is a neutralizing antibody.

Target	Human CD11a (LFA-1α)
Immunogen	C57BL/6 mouse splenocytes
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	R7-1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	FuncS, FC
Molecular Weight	150 kDa
Format	0.2 μM 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	CD11 is the alpha (alpha) component of various integrins, especially ones in which the beta (beta) component is CD18 (beta2) and mediate leukocyte adhesion. For example, LFA1 (CD11a/CD18) short representation of Lymphocyte Function-associated Antigen 1, also called alphaLbeta2 integrin; Mac1 (CD11b/CD18) present on macrophages that is also called Macrophage-1 antigen (CR3) and alphambeta2 integrin; CD11c/CD18 also called complement receptor 4 (CR4)
Keywords	CD11;LFA 1 alpha;LCAMB;ITGB 2

GENE INFORMATION

Official Symbol	CD11
Synonyms	CD11; LFA 1 alpha; LCAMB; ITGB 2
References	Welzenbach, K., et al. (2015). "A novel multi-parameter assay to dissect the pharmacological effects of different modes of integrin alphaLbeta2 inhibition in whole blood." Br J Pharmacol 172(20): 4875-4887. PubMed;