



# Rat Anti-Mouse LFA-1 $\alpha$ (CD11a) Monoclonal antibody, clone FD441.8 (CABT-L4343)

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

## PRODUCT INFORMATION

**Product Overview** The FD441.8 monoclonal antibody reacts with mouse LFA-1 $\alpha$  (lymphocyte function-associated antigen 1 alpha) also known as integrin alpha L chain and CD11a. LFA-1 $\alpha$  and CD18 combine to form LFA-1, a 180 kDa glycoprotein and a member of the integrin family.

<b>Target</b>	Mouse LFA-1 $\alpha$ (CD11a)
<b>Immunogen</b>	Cloned CTL B18 cells
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	FD441.8
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo LFA-1 neutralization
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 $\mu$ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg

<b>Buffer</b>	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
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	The FD441.8 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.
<b>Keywords</b>	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

<b>Official Symbol</b>	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
<b>Synonyms</b>	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;
<b>References</b>	Su, C. A., et al. (2014). "Endogenous memory CD8 T cells directly mediate cardiac allograft rejection." Am J Transplant 14(3): 568-579. PubMed;