Technical Data Sheet Purified Mouse Anti-Rat CD11a

Product Information

Material Number:	559979		
Alternate Name:	Integrin α L chain, LFA-1 α chain		
Size:	0.1 mg		
Concentration:	0.5 mg/ml		
Clone:	WT.1		
Immunogen:	PHA-stimulated rat splenocytes and rat thymic lymphoma FTL-43		
Isotype:	Mouse (BALB/c) IgG2a, κ		
Reactivity:	QC Testing: Rat		
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.		

Description

The WT.5 antibody reacts with the asubunit of LFA-1 (αLβ2 integrin, CD11a/CD18), a heterodimeric surface glycoprotein which is found on the majority of leukocytes, but not on peritoneal macrophages or peritoneal mast cells. LFA-1 mediates a variety of heterotypic and homotypic intercellular adhesions through interaction with ICAM-1 (CD54) and ICAM-2 (CD102). WT.1 mAb recognizes both the activated and unactivated forms of LFA-1. It inhibits the binding of LFA-1 to ICAM-1 in several in vitro assays, including binding of Concanavalin A-stimulated lymphocytes (Con A blasts) to purified ICAM-1 and Mg2+-dependent aggregation of concanavalin A-stimulated blasts. It has also been reported to inhibit leukocyte infiltration in several in vivo models of inflammation.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes Application

Flow cytometry	Routinely Tested		
Immunoprecipitation	Reported		
Blocking	Reported		
Inhibition	Reported		
Immunohistochemistry-frozen	Reported		

Suggested Companion Products

Catalog Number	Name	Size	Clone
553454	Purified Mouse IgG2a κ Isotype Control	0.5 mg	G155-178
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results. 1.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before 3. discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LETM (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

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