Technical Data Sheet

Purified Mouse Anti-Rat Macrophage Activator

Product Information	
Material Number:	555020
Alternate Name:	RMA
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	anti-RMA
Immunogen:	Activated Lewis rat alveolar macrophages
Isotype:	Mouse (BALB/c X C57BL/6) IgG1, ĸ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The anti-RMA antibody reacts with a 120-kDa cell-surface antigen, which is found on tissue macrophages, resident alveolar macrophages, thioglycollate-elicited peritoneal exudate cells, a subset of peripheral blood monocytes, and a small subset of pulmonary interstitial dendritic cells. mAb anti-RMA activates DNA and protein synthesis and promotes fusion of alveolar macrophages to form multinucleated giant cells.



Two-color analysis of Macrophage Activator antigen expression on peripheral blood monocytes. Lewis rat peripheral blood leukocytes were incubated simultaneously with FITC-conjugated anti-rat CD11b mAb WT.5 (Cat. no. 554982) and purified mAb anti-RMA. The purified antibody was detected with biotinylated anti-mouse IgG1 mAb A85-1 (Cat. no. 553441), followed by Streptavidin-PE (Cat. no. 554061). Mononuclear cells were selected according to their forward vs. side-scatter profile. Flow cytometry was performed on a BD FACScan[™] flow cytometry system.

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			
Immunohistochemistry-frozen	Reported			
Immunoprecipitation	Reported			
Western blot	Not Recommended			
Immunohistochemistry-paraffin	Not Recommended			

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554982	FITC Mouse Anti-Rat CD11b	0.5 mg	WT.5
553441	Biotin Rat Anti-Mouse IgG1	0.5 mg	A85-1
554061	PE Streptavidin	0.5 mg	(none)
557273	Purified Mouse IgG1, ĸ Isotype Control	0.5 mg	MOPC-31C

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. 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/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
- 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Lazarus D, Yamin M, McCarthy K, Schneeberger EE, Kradin R. Anti-RMA, a murine monoclonal antibody, activates rat macrophages: II. Induction of DNA synthesis and formation of multinucleated giant cells.. *Am J Respir Cell Mol Biol.* 1990; 3(2):103-111.(Clone-specific: Activation) Xia WJ, Schneeberger EE, McCarthy K, Kradin RL. Accessory cells of the lung. II. Ia+ pulmonary dendritic cells display cell surface antigen heterogeneity. *Am J Respir Cell Mol Biol.* 1991; 5(3):276-283.(Biology)

Yamin M, Lazarus D, Schneeberger EE, McCarthy K, Xia WJ, Kradin R. Anti-RMA: a murine monoclonal antibody that activates rat macrophages. I. Distribution and characterization of the RMA antigen. *Cell Mol Biol (Noisy-le-grand)*. 1990; 2:207-215.(Immunogen: Activation, Immunohistochemistry, Immunoprecipitation, Western blot)