

Technical Data Sheet

Purified NA/LE Mouse Anti-Rat CD11b/c

Product Information

Material Number:	554858
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	OX-42
Immunogen:	Resident peritoneal cells from (PVG.RT1[c] x PVG.RT1[u]) and (PVG.RT1[c] x PVG.RT1[a]) F1-hybrid rat
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The OX-42 monoclonal antibody specifically binds to the CR3 complement (C3bi) receptor found on most monocytes, granulocytes, macrophages, dendritic cells, and microglia. It appears to recognize a common epitope shared by CD11b and CD11c (integrin α M and α X chains). OX-42 antibody inhibits C3bi binding activity.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported
Immunoprecipitation	Reported
Immunocytochemistry (cytospins)	Reported
Immunohistochemistry-frozen	Reported
Immunofluorescence	Reported

Recommended Assay Procedure:

For immunohistochemistry, we recommend the use of purified OX-42 mAb in our special formulation for immunohistochemistry, Cat. No. 550299.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553453	Purified NA/LE 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.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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Liu L, Zhang M, Jenkins C, MacPherson GG. Dendritic cell heterogeneity in vivo: two functionally different dendritic cell populations in rat intestinal lymph can be distinguished by CD4 expression. *J Immunol*. 1998; 161(3):1146-1155. (Biology)

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Robinson AP, White TM, Mason DW. Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. *Immunology*. 1986; 57(2):239-247. (Immunogen: Blocking, Immunocytochemistry (cytospins), Immunofluorescence, Immunohistochemistry, Immunoprecipitation)

Robinson AP, White TM, Mason DW. MRC OX-43: a monoclonal antibody which reacts with all vascular endothelium in the rat except that of brain capillaries. *Immunology*. 1986; 57(2):231-237. (Immunogen)

Shinoda M, Hoffer BJ, Olson L. Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation. *Brain Res*. 1996; 722(1-2):153-167. (Biology)

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Yamazaki T, Seko Y, Tamatani T, et al. Expression of intercellular adhesion molecule-1 in rat heart with ischemia/reperfusion and limitation of infarct size by treatment with antibodies against cell adhesion molecules. *Am J Pathol*. 1993; 143(2):410-418. (Clone-specific: Blocking, Immunohistochemistry)

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