SONY

Product Data Sheet

APC anti-rat CD11b/c

Catalog # / Size: 1609045 / 50 µg

Clone: OX-42

Isotype: Mouse IgG2a, κ

Immunogen: Rat peritoneal macrophages.

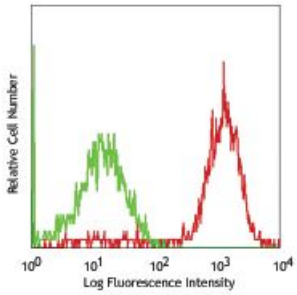
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Workshop Number: HCDM listed

Concentration: 0.2



LOU rat bone marrow cells stained with OX-42 APC (gated on myeloid cell population)

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections[1,2], immunoprecipitation3, *in vivo* and *in vitro* blocking of C3bi binding[3,4].

Application References:

1. Whiteland JL, *et al.* 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
2. Milligan CE, *et al.* 1991. *J. Comp. Neurol*. 314:125. (IHC)
3. Robinson AP, *et al.* 1986. *Immunology* 57:239. (Block)
4. Issekutz SE, *et al.* 1992. *Immunology* 76:655. (Block)
5. Muehlbauer SM, *et al.* Am. J Pathol. 177:735. (FC) PubMed
6. Thomas RA. *et al.* 2009. *J Pharmacol Toxicol Methods.* 60:263. PubMed
7. Takeda Y, *et al.* 2011. *Immunobiology.* 216:1094. PubMed
8. Furuhashi K, *et al.* 2013. *J Am Soc Nephrol.* PubMed
9. Cheng HY, *et al.* 2013. *Cytotherapy.* 1465:608. PubMed

Description: The OX-42 antibody reacts with the CR3 complement (C3bi) receptor expressed on monocytes, granulocytes, macrophages, dendritic cells, NK cells, and a subset of lymphocytes. This antibody appears to recognize a common epitope shared between CD11b and CD11c (integrin α_M and α_X chains). The OX-42 antibody precipitates three polypeptides with apparent molecular weights of 160, 103, and 95 kD, respectively. This antibody has been shown to block the formation of complement-mediated rosettes and leukocyte migration.

Antigen References:

1. Robinson AP, *et al.* 1986. *Immunology* 57:239.
2. Barcaly AN. 1981 *Immunology* 42:593.

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