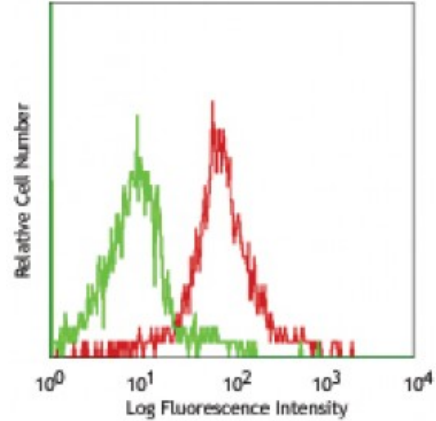


Purified anti-rat CD172a (SIRP α)

Catalog # / Size: 1623510 / 500 μ g
Clone: OX-41
Isotype: Mouse IgG2a, κ
Immunogen: Rat peritoneal macrophages
Reactivity: Rat
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



LOU rat bone marrow cells stained with purified OX-41 (gated on granulocyte population)

Applications:

Applications: Other

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 microg per 10^6 cells in 100 microL 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: Western blotting³, immunoprecipitation¹, and immunohistochemical staining^{1, 2}.

Application References:

1. Robinson AP, *et al.* 1986. *Immunology* 57:239. (IP, IHC)
2. Thai QA, *et al.* 1999. *Stroke* 30:140. (IHC)
3. Adams S, *et al.* 1998. *J. Immunol.* 161:1853. (WB)

Description: Rat CD172a, also known as a signal-regulatory protein α (SIRP α), is a 75-110 kD transmembrane glycoprotein involved in the receptor tyrosine kinase coupled signaling pathway. It belongs to the Ig superfamily primarily expressed on monocytes/macrophages, granulocytes, dendritic cells and neurons. CD172a serves as a substrate of activated receptor tyrosine kinases (RTKs). The interaction of the CD172a intracellular domain with SHP-1 and SHP-2 displays negative signaling in the regulation of leukocyte adhesion and transmigration, T cell activation, macrophage fusion and phagocytosis. CD47 (IAP) is an extracellular ligand for CD172a.

Antigen References:

1. Robinson AP, *et al.* 1986. *Immunology* 57:239.
2. Thai QA, *et al.* 1999. *Stroke* 30:140.
3. Adams S, *et al.* 1998. *J. Immunol.* 161:1853.