SONY

Product Data Sheet

APC anti-rat CD47

Catalog # / Size: 1620565 / 25 µg
1620570 / 100 µg

Clone: OX-101

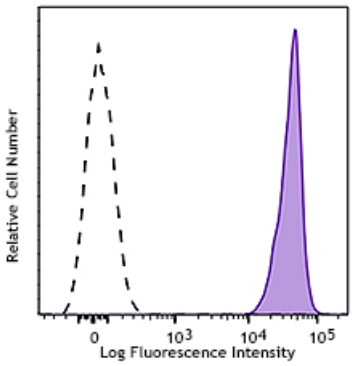
Isotype: Mouse IgG1, κ

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

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

Concentration: 0.2 mg/ml



LOU rat splenocytes were surface stained with CD47 (clone OX-101) APC (filled histogram)

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 References:

1. Vernon-Wilson, *et al.* 2000. *Eur. J. Immunol.* 30:2130.
2. Brown E, *et al.* 1990. *J. Cell. Biol.* 111:2785.
3. Mawby WJ, *et al.* 1994. *Biochem. J.* 304:525.

Description: CD47, also known as Integrin-Associated Protein (IAP), is a membrane protein of about 50 kD with an IgV-like extracelluluar domain, a five membrane-spanning segment, and a short terminal cytoplasmic region. It is widely expressed on many cell types and often associated with beta 3 integrins. The significance of this molecule is recently drawing increasing attention. It has been reported that CD47 functions as a self marker. Red cells lacking CD47 were rapidly cleared from the bloodstream by splenic macrophages. By binding to SIRPα, CD47 controls hemostatic innate immune functions, such as phagocytosis and cell trafficking.

Antigen References:

1. Vernon-Wilson, *et al.* 2000. *Eur. J. Immunol.* 30:2130.
2. Brown E, *et al.* 1990. *J. Cell. Biol.* 111:2785.
3. Mawby WJ, *et al.* 1994. *Biochem. J.* 304:525.

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