

Product Data Sheet

LEAF™ Purified anti-mouse CD47

Catalog # / Size: 127511 / 50 µg

127512 / 500 µg

Clone: miap301 **Isotype:** Rat IgG2a, κ

Reactivity: Mouse, Cross-Reactivity: Not cross-reactive with human CD47

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of

the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under

aseptic conditions.

Applications:

Applications: FC - Quality tested

Block- This application has been reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For

immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume or 100 µl of

whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Wang H, et al. 2007. P. Natl. Acad. Sci. USA 104:13744.

2. Jiang P, et al. 1999. J. Biol. Chem. 274:559. Chang HP, et al. 2001. Neuroscience. 102:289.
Azcutia V, et al. 2012. J. Immunol. 189:2553. PubMed.

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 molecules 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 SIRPalpha, CD47 controls hemostatic

innate immune functions, such as phagocytosis and cell trafficking.

Antigen References: 1. Brown E, et al. 1990. J. Cell Biol. 111:2785 2. Mawby WJ, et al. 1994. Biochem. J. 304:525

3. Gao AG, et al. 1996. J. Biol. Chem. 271:21

4. Oldenborg PA, et al. 2000. 288:2051.

5. van Beck EM, et al. 2005. J. Immunol. 175:7781

Related Products: Product

RBC Lysis Buffer (10X)

LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Cell Staining Buffer

Clone RTK2758

FC, ICFC, WB, IP, ICC, IF,

IHC, FA FC, ICC, ICFC FC, ICFC

Application





