SONY

Product Data Sheet

Purified anti-mouse CD63

Catalog # / Size: 1319510 / 100 µg
1319505 / 25 µg

Clone: NVG-2

Isotype: Rat IgG2a, κ

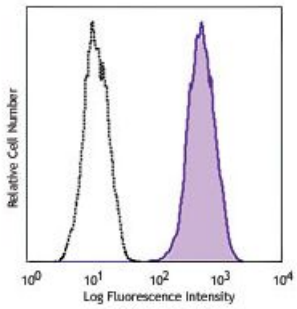
Immunogen: Intestinal lamina propria light-density cells (enriched with eosinophils)

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5



bEnd.3, mouse endothelial cells were stained with purified CD63 (clone NVG-2) (filled histogram) or rat IgG2a, κ isotype control (open histogram), followed by anti-rat IgG PE.

Applications:

Applications: Flow Cytometry, Immunohistochemistry, 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 ≤1.0 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: Western blotting1 and immunofluorescence1.

Application References:

1. Verjan Garcia N, *et al.* 2011. *J. Immunol.* 187:2268. (WB, IF)

Description: CD63, also known as LIMP, LAMP-3, gp55, and melanoma-associated antigen (ME491), is a member of the tetraspanin superfamily (TM4SF) that constitutes a main component of the lysosomal membrane. It is expressed on activated platelets, monocyte/macrophages, endothelium, fibroblasts, osteoblasts, and smooth muscle cells. CD63 may be involved in platelet activation and is thought to function as a transmembrane adaptor protein. CD63 has been shown to associate with CD9, CD81, VLA-3, and VLA-6. In mice, there are two CD63 gene loci, of which only one is functional. CD63 deficient mice are viable, and there is no alteration in the population of immune cells. A recent report shows that CD63-deficient mice exhibit a significant reduction in both leukocyte rolling and recruitment in a peritonitis model.

Antigen References:

1. Azorsa DO, *et al.* 1991. *Blood* 78:280.
2. Kishimoto T, *et al.* 1997. Leukocyte Typing V1. Oxford University Press New York.
3. Hildreth JE, *et al.* 1991. *Blood* 77:121.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.
Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com