SONY

Product Data Sheet

APC/Cy7 anti-mouse CD63

Catalog # / Size:	1319535 / 25 µg 1319540 / 100 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 and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2
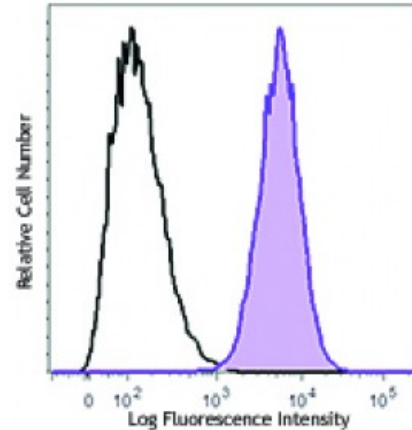
bEND.3 cells were stained with CD63 (clone NVG-2) APC/Cy7 (filled histogram) or rat IgG2a, κ APC/Cy7 isotype control (open histogram).

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 ≤0.5 microg per million 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 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.