PE anti-mouse CD49a

Catalog # / Size: 1313020 / 100 μg

1313015 / 25 μg

Clone: $HM\alpha1$

Isotype: Hamster IgG

Immunogen: Mouse Neuroblastoma Cell Line C1300

Reactivity: Mouse

Preparation: The antibody was purified by affinity

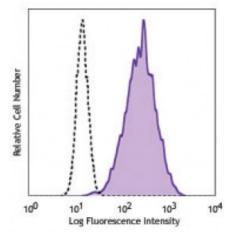
chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and

unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: NULL



C1300 (mouse neuroblastoma cell line) cells were stained with CD49a (clone HM α 1) PE (filled histogram) or Armenian hamster IgG PE 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 ≤0.25 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 format) include: inhibition of cell

adhesion and cytokine production^{1,2}.

Application References:

1. Miyake S, et al. 1994. Eur. J. Immunol. 24:2000. (FC, Block)

2. Tanaka T, et al. 1995. Int. Immunol. 7:1183. (Block)

3. Nagaoka M, et al. 2014. J Immunol. 193:2812. PubMed

4. Burton BR, et al. 2014. Nat Commun. 5:4741. PubMed

Description:

CD49a is a 1179 aa, type I transmembrane glycoprotein also known as $\alpha 1$ integrin, VLA-1 α chain, or integrin $\alpha 1$. It associates antibody v042010 with CD29 ($\beta 1$ integrin) to form the VLA-1 complex, a collagen IV and alminin-1 receptor that is expressed on activated T cells, smooth muscle cells, endothelial cells, neuronal cells, fibroblasts, and mesenchymal cells. CD49a is an adhesion molecule and is involved in the regulation of leukocyte migration, T cell proliferation, and cytokine production.

Antigen References:

1. Barczyk M, et al. 2010. Cell Tissue Res. 339:269.