

PE anti-mouse CD49a

Catalog # / Size: 1313015 / 25 µg
1313020 / 100 µg

Clone: HMα1

Isotype: Hamster IgG

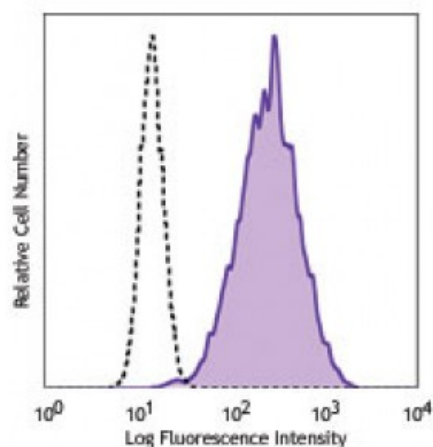
Immunogen: Mouse Neuroblastoma Cell Line C1300

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 HMα1) 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 α1 integrin, VLA-1 α chain, or integrin α1. It associates antibody v042010 with CD29 (β1 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.