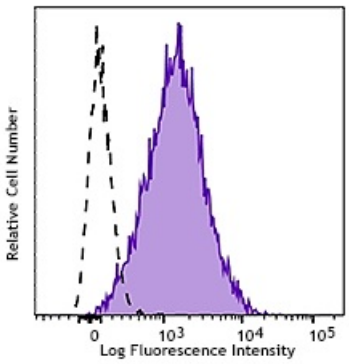
SONY

Product Data Sheet

APC/Fire™ 750 anti-mouse CD49a

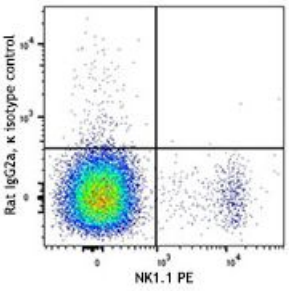
Catalog # / Size:	1313050 / 100 µg 1313045 / 25 µg
Clone:	HMα1
Isotype:	Hamster IgG
Immunogen:	Mouse Neuroblastoma Cell Line C1300
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/ml



C1300 (mouse neuroblastoma cell line) cells were stained with CD49a (clone HMα1) APC/Fire™ 750 (filled histogram) or Armenian hamster IgG APC/Fire™ 750 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 ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant format) include: inhibition of cell adhesion and cytokine production[1,2].



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

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)

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.

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