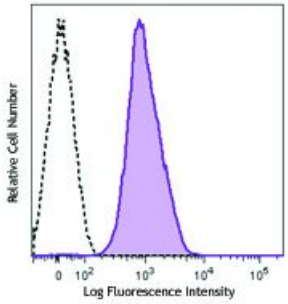
SONY

Product Data Sheet

Purified anti-human CD49b

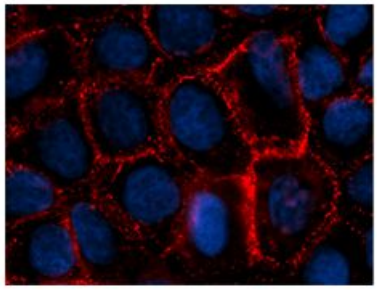
Catalog # / Size:	2396505 / 50 µg 2396510 / 500 µg
Clone:	P1E6-C5
Isotype:	Mouse IgG1, κ
Immunogen:	HT1080 cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	V CD24.5
Concentration:	0.5



Human peripheral blood platelets stained with purified CD49b (clone P1E6-C5) or purified mouse IgG1, κ isotype control, followed by anti-mouse IgG PE.

Applications:

Applications:	Flow Cytometry, Other, Immunoprecipitation
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 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 of this clone) include: *in vitro* blocking activity[1,2], immunoprecipitation3, and Other4. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional studies (Cat. No. 359304).



Application References:

1. Hirsch MS, *et al.* 1997. *Dev. Dyn.* 210:249. (Block)
2. Sawhney RS, *et al.* 2006. *J. Biol. Chem.* 281:8497. (Block)
3. Lee SA, *et al.* 2009. *Carcinogensis.* 30:1872. (IP)
4. Zßrate S, *et al.* 2004. *J. Virol.* 78:10839. (Other)

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Description: CD49b is a 170 kD transmembrane protein, also known as α_2 integrin, VLA-2 α chain, Integrin α_2 and GPIa. It associates with CD29 (β_1 integrin) to form VLA-2, a collagen and laminin receptor on many cell types including monocytes, platelets, activated T cells, megakaryocytes, neuronal cells, epithelial cells, and osteoclasts. CD49b has been reported to interact with F-actin and matrix metalloproteinase 1. CD49b is a platelet alloantigen and has been associated with neonatal alloimmune thrombocytopenia. Deficiencies in this protein have been associated with hemorrhagic disorders.

Antigen References:

1. Kaplan C, *et al.* 1991. *Br. J. Haematol.* 78:425.
2. Kiefel V, *et al.* 1991. *Vox Sang.* 60:244.
3. Nieuwenhuis HK, *et al.* 1985. *Nature* 318:470.
4. Takada Y and Helmer ME. 1989. *J. Cell Biol.* 109:397.

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