Product Data Sheet

PE anti-human CD49b

Catalog # / Size:	2396535 / 25 tests 2396540 / 100 tests	.š
Clone:	P1E6-C5	
Isotype:	Mouse IgG1, κ	Belative Cell Number 0 10 ² 10 ³ 10 ⁴ 10 ⁵
Immunogen:	HT1080 cells	
Reactivity:	Human	
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 and 0.2% (w/v) BSA (origin USA).	Log Fluorescence Intensity Human peripheral blood platelets were stained with CD49b (clone P1E6-C5) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).
Concentration:	Lot-specific	

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 5 microL per million cells or 5 microL per 100 microL of whole blood. 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: <i>in vitro</i> blocking activity ^{1,2} , immunoprecipitation3, and ELISA4. The LEAF ^{m} 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, <i>et al.</i> 1997. <i>Dev. Dyn.</i> 210:249. (Block) 2. Sawhney RS, <i>et al.</i> 2006. <i>J. Biol. Chem.</i> 281:8497. (Block) 3. Lee SA, <i>et al.</i> 2009. <i>Carcinogensis.</i> 30:1872. (IP) 4. Zárate S, <i>et al.</i> 2004. <i>J. Virol.</i> 78:10839. (ELISA)
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:	 Kaplan C, <i>et al.</i> 1991. <i>Br. J. Haematol.</i> 78:425. Kiefel V, <i>et al.</i> 1991. <i>Vox Sang.</i> 60:244. Nieuwenhuis HK, <i>et al.</i> 1985. <i>Nature</i> 318:470. Takada Y and Helmer ME. 1989.

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