APC anti-human CD49b

Catalog # / Size: 2396545 / 25 tests

2396550 / 100 tests

Clone: P1E6-C5

Isotype: Mouse IgG1, κ

Immunogen: HT1080 cells

Reactivity: Human

Preparation: The antibody was purified by affinity

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

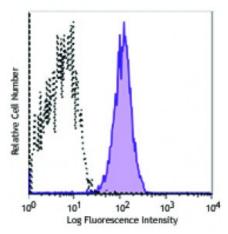
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood platelets were stained with CD49b (clone P1E6-C5) APC (filled histogram) or mouse IgG1, K APC 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 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: *in vitro* blocking activity^{1,2}, immunoprecipitation3, and ELISA4. The LEAF^m purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m 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. Zárate S, et al. 2004. J. Virol. 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:

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.