Product Data Sheet

APC anti-human CD41/CD61

Catalog # / Size: 2399035 / 25 tests

2399040 / 100 tests

Clone:

Isotype: Mouse IgG2a, κ

Immunogen: Human platelets

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

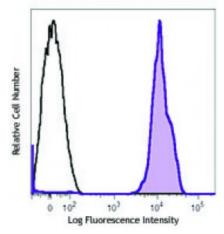
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

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

Concentration: Lot-specific



Human platelets were stained with anti-human CD41/CD61 (clone A2A9/6) APC (filled histogram), or mouse IgG2a, κ 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 relevant formats) include:

immunoprecipitation1 and blocking (aggregation)₂. The Ultra-LEAF™ purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended

for functional assays (Cat. No. 359804).

A2A9/6 is recognized as having high affinity to gpllb/llla. It has been shown to inhibit platelet aggregation induced by a variety of agonists and the initiation of

clot formation.

Application References: 1. Basani RB, et al. 1996. Blood. 88:167. (IP)

2. Bennett JS, et al. 1983. Proc. Natl. Acad. Sci. USA. 80:2417. (Block)

Description: CD41/CD61, also known as gpllb/llla, is a member of a family integrin receptors.

> This is a complex comprised by CD41 and CD61 through non-covalent association. CD41/CD61 is mainly expressed by platelets and megakaryocytes. The resting form of the CD41/CD61 complex is involved in platelet activation and aggregation by binding to immobilized fibrinogen. After activation, CD41/CD61 becomes a receptor for soluble fibrinogen and several other RGD-containing adhesive proteins such as von Willebrand Factor (vWF) and fibronectin. An absence or dysfunction of CD41/CD61 on the platelet surface results in an inherited bleeding disorder, called Glanzmann Thromsasthenia (GT). CD41/CD61 has been found on murine hematopoietic progenitor cells, indicating that this

complex may play a role in regulating hematopoietic development.

Antigen 1. Matsumura-Takeda K, et al. 2007. Stem Cell. 25:862. **References:** 2. Corbel C, *et al.* 2005. 49:279.

3. Bennett JS, et al. 1983. Proc. Natl. Acad. Sci. USA. 80:2417.

4. Clemetson KJ, et al.