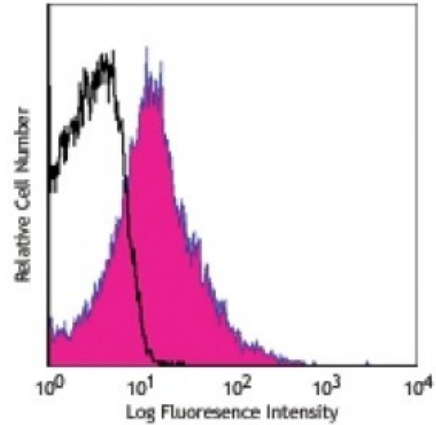


Alexa Fluor® 647 anti-human CD62P (P-Selectin)

Catalog # / Size: 2124590 / 100 tests
Clone: AK4
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number: VI P-44
Concentration: NULL



Thrombin-activated human platelets stained with AK4 Alexa Fluor® 647

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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁴ and *in vitro* blocking of adhesion of platelets¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 304911).

Application References:
 1. Skinner M, *et al.* 1991. *J. Biol. Chem.* 266:5371. (Block)
 2. Kishimoto T, *et al.* Eds. 1997. *Leucocyte Typing VI*. Garland Publishing Inc. London.
 3. Yen YT, *et al.* 2006. *J. Virol.* 80:2684.
 4. Sato Y, *et al.* 2005. *Blood* 106:428. (IHC)

Description: CD62P is a 140 kD type I transmembrane glycoprotein also known as P-selectin, platelet activation-dependent granule membrane protein (PADGEM), and GMP-140. It is expressed on activated platelets, megakaryocytes, and endothelial cells. CD62P is primarily stored in secretory α-granules in platelets and Weibel-Palade bodies in endothelial cells, and is rapidly relocated to the plasma membrane upon activation. The ligands for CD62P are CD162 and CD24. A primary function of CD62P is cell adhesion during neutrophil rolling, and platelet-neutrophil and platelet-monocyte interactions.

Antigen References:
 1. McEver R, *et al.* 1995. *J. Biol. Chem.* 270:11025.
 2. Varki A. 1994. *P. Natl. Acad. Sci. USA* 91:7390.