

Brilliant Violet 605™ anti-human CD62P (P-Selectin)

Catalog # / Size: 2124600 / 100 tests
2124595 / 25 tests

Clone: AK4

Isotype: Mouse IgG1, κ

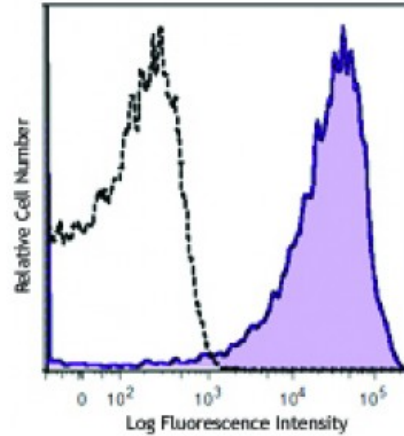
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: VI P-44

Concentration: Lot-specific



Thrombin-activated human peripheral blood platelets were stained with CD62P (clone AK4) Brilliant Violet 605™ (filled histogram) or mouse IgG1, κ Brilliant Violet 605™ 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.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

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