

APC/Cyanine7 anti-human CD62P (P-Selectin)

Catalog # / 2124720 / 100 tests
Size: 2124715 / 25 tests

Clone: AK4

Isotype: Mouse IgG1, κ

Immunogen: Armenian hamster fibroblast line ARHO12 transfected with mouse CD27 cDNA

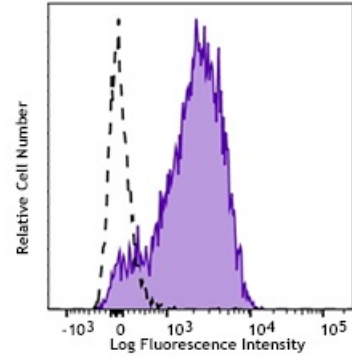
Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions. The solution is free of unconjugated APC/Cyanine7 and unconjugated antibody.

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: Lot-specific



Thrombin-activated human peripheral blood platelets were stained with CD62P (P-Selectin) (clone AK4) APC/Cyanine7 (filled histogram) or mouse IgG1, κ APC/Cyanine7 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

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.

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.