

Product Information

Contents: Affinity Purified anti-human CD62P (P-selectin)

Catalog Number: 14-0628

Sizes: 25 ug, 100 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: AK-4

Isotype: Mouse IgG1, κ

HLDA No.: VI P-44

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0628	FITC anti-human CD62P (P-selectin)	488	518	FC
12-0628	PE anti-human CD62P (P-selectin)	488	575	FC
14-0628	Affinity Purified anti-human CD62P (P-selectin)	N/A	N/A	FA FC IH/F
16-0628	Coming Soon! - Functional Grade* Purified anti-human CD62P (P-selectin)	N/A	N/A	FA

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The AK-4 monoclonal antibody reacts with human CD62P, a 140 kDa transmembrane glycoprotein also known as P-Selectin. Upon activation, CD62P is rapidly transported from its cytoplasmic stores in the Weibel-Palade bodies of endothelial cells or the alpha-granules of platelets to the surface. CD62P initiates the adhesive interaction between endothelial cells and neutrophils and monocytes during the inflammatory reaction and is also involved in the interaction of platelets with monocytes and neutrophils.

Usage

For research use only, not for diagnostic or therapeutic use. The AK-4 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. AK-4 has also been reported in blocking adhesion of platelets in *in vitro* assays. (Please use Functional Grade purified AK-4 in functional assays.)

Applications Tested

The AK-4 antibody has been tested by flow cytometric analysis of thrombine-activated human platelets. This can be used at less than or equal to 1 μg per 100 μl blood (or per 1 million cells in 100 μl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0628 FITC anti-human CD62P (P-selectin) (clone AK-4)
Cat. 12-0628 PE anti-human CD62P (P-selectin) (clone AK-4)
Cat. 11-4011 FITC Anti-Mouse IgG
Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

References

Skinner MP, Lucas CM, Burns GF, Chesterman CN, Berndt MC. GMP-140 binding to neutrophils is inhibited by sulfated glycans. *J Biol Chem.* 1991 Mar 25;266(9):5371-4.

Kishimoto, T., A.E.G., von dem Borne, et al. eds. (1998). *Leucocyte Typing VI: White Cell Differentiation Antigens*. Garland Publishing Inc. London.

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