

ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)

Package: 100 µg
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Azide free and low endotoxin Mouse Monoclonal antibody [AK4] recognizes CD62P / P-Selectin |
| Tested Reactivity | Hu, NHuPrm |
| Tested Application | FACS, FuncSt, ICC/IF, IP, WB |
| Specificity | The clone AK4 recognizes an extracellular epitope of CD62P (P-selectin), a 140 kD single chain type I transmembrane glycoprotein present in secretory alpha-granules in platelets, in Weibel-Palade bodies in endothelial cells and in megakaryocytes; it is relocated to the plasma membrane upon activation. Workshop: HLDA VI: WS Code P-44. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | AK4 |
| Isotype | IgG1 |
| Target Name | CD62P / P-Selectin |
| Species | Human |
| Immunogen | Human platelets |
| Conjugation | Un-conjugated |
| Alternate Names | PADGEM; CD62; Platelet activation dependent granule-external membrane protein; CD62 antigen-like family member P; GMP140; PSEL; Granule membrane protein 140; CD62P; CD antigen CD62P; Leukocyte-endothelial cell adhesion molecule 3; GRMP; GMP-140; P-selectin; LECAM3 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|---|-----------------|
| | FACS | 1.5 µg/ml |
| | FuncSt | Assay-dependent |
| | ICC/IF | Assay-dependent |
| | IP | Assay-dependent |
| | WB | Assay-dependent |
| Application Note | Functional studies: Blocking. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

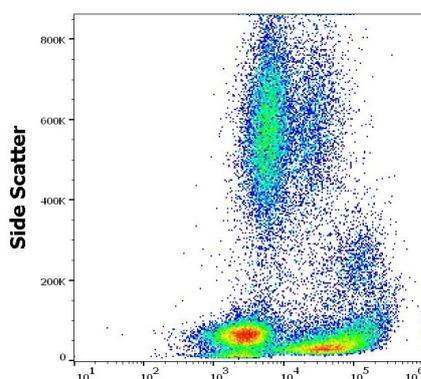
| | |
|--------------|------------------------------|
| Form | Liquid |
| Purification | Purification with Protein A. |

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|---------------------|--|
| Purification Note | 0.2 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE) |
| Buffer | PBS (pH 7.4) |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

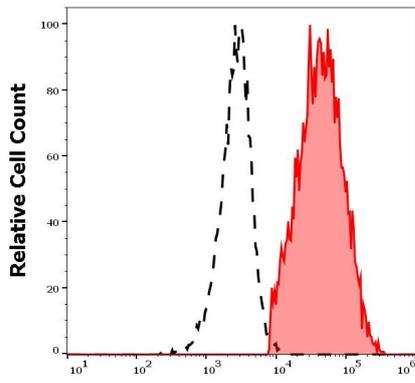
| | |
|----------------|---|
| Database links | GeneID: 6403 Human Swiss-port # P16109 Human |
| Gene Symbol | SELP |
| Gene Full Name | selectin P (granule membrane protein 140kDa, antigen CD62) |
| Background | CD62P (P-selectin) is an adhesion glycoprotein that is expressed on platelets and endothelial cells upon their activation. Interaction between CD62P and its mucin-like ligand PSGL-1 (P-selectin glycoprotein ligand-1) expressed on the microvilli of most leukocytes supports leukocyte rolling along postkapillary venules at the earliest time of inflammation. Both CD62P and PSGL-1 are extended glycoproteins that form homodimers. CD62P dimerization is probably mediated through interactions of the transmembrane domains and stabilizes leukocyte tethering and rolling, probably by increasing rebinding within a bond cluster. |
| Function | Ca(2+)-dependent receptor for myeloid cells that binds to carbohydrates on neutrophils and monocytes. Mediates the interaction of activated endothelial cells or platelets with leukocytes. The ligand recognized is sialyl-Lewis X. Mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. [UniProt] |
| Research Area | Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody |
| Calculated Mw | 91 kDa |

Images



ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)
FACS image

Flow Cytometry: Human peripheral blood stained with ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)
FACS image

Flow Cytometry: Separation of human thrombocytes (red-filled) from CD62P negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.