Human/Rat P-Selectin/CD62P Antibody
Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF137

DESCRIPTION
Species Reactivity Human/Rat
Specificity Detects human and rat P-Selectin/CD62P in Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant mouse P-Selectin, and less than 1% cross-reactivity with recombinant human (rh) E-Selectin is observed.
Source Polyclonal Sheep IgG
Purification Antigen Affinity-purified
Immunogen Chinese hamster ovary cell line CHO-derived recombinant human P-Selectin/CD62P
Endotoxin Level <0.10 EU per 1 µg of the antibody by the LAL method.
Formulation Lyophilized from a 0.2 µg/mL filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

APPLICATIONS
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<td>Western Blot</td>
<td>1 µg/mL</td>
<td>See Below</td>
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| Adhesion Blockade         |                           | The adhesion of U937 human histiocytic lymphoma cells (5 x 10⁶ cells/well) to immobilized recombinant human P-Selectin (10 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 25 µg/mL of the antibody.

DATA

Western Blot Detection of Human P-Selectin/CD62P by Western Blot. Western blot shows lysates of human platelets. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human P-Selectin/CD62P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF137) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for P-Selectin/CD62P at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot Detection of Rat P-Selectin/CD62P by Western Blot. Western blot shows lysates of rat platelets. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Rat P-Selectin/CD62P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF137) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for P-Selectin/CD62P at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE
Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µg/mL filtered solution in PBS.
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
   - 12 months from date of receipt, -20 to -70 °C as supplied.
   - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
   - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND
Human P-Selectin (GMP-140, LECAM-3, PADGEM, CD62P), a member of the Selectin family, is a cell surface glycoprotein expressed by activated platelets and endothelial cells. P-Selectin is translocated to the cell surface within minutes, from alpha granules of platelets or Weibel-Palade bodies of endothelial cells, following stimulation with thrombin, histamine, PMA or peroxides. P-Selectin binds to a 106 kDa protein present on myeloid cells, neutrophils, monocytes and lymphocytes, termed PSGL-1 (P-Selectin glycoprotein ligand-1).

P-Selectin plays a role in the adhesion of leukocytes and neutrophils to the endothelium. Acting in cooperation with L Selectin, P-Selectin mediates the initial interaction of circulating leukocytes with endothelial cells that produces a characteristic ‘rolling’ of the leukocytes on the endothelium. This initial interaction is followed by a stronger interaction involving E-Selectin, and later ICAM-1 and VCAM-1, that leads eventually to extravasation of the white blood cell through the blood vessel wall into the extracellular matrix tissue. ELISA techniques have shown that detectable levels of soluble P-Selectin are present in the biological fluids of apparently normal individuals. Furthermore, a number of studies have reported that levels of P-Selectin may be elevated or lowered in subjects with a variety of pathological conditions.