

## DESCRIPTION

<b>Species Reactivity</b>	Human/Rat
<b>Specificity</b>	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 and rhL-Selectin is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human P-Selectin/CD62P
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

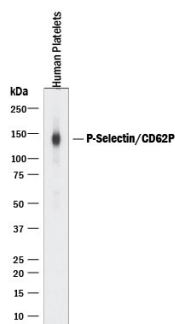
## APPLICATIONS

**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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Simple Western</b>	50 µg/mL	Human platelets
<b>Adhesion Blockade</b>	The adhesion of U937 human histiocytic lymphoma cells ( $5 \times 10^4$ 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.	

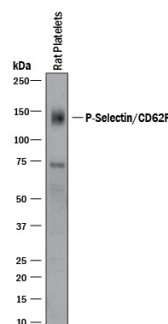
## DATA

### Western Blot



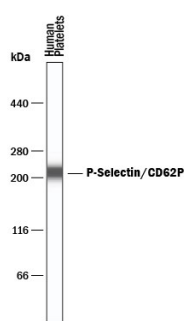
**Detection of Human P-Selectin/CD62P by Western Blot.** Western blot shows lysates of human platelets. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human P-Selectin/CD62P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF137) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # 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 # 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.

### Simple Western



**Detection of Human P-Selectin/CD62P by Simple Western™.** Simple Western lane view shows lysates of human platelets, loaded at 0.2 mg/mL. A specific band was detected for P-Selectin/CD62P at approximately 219 kDa (as indicated) using 50 µg/mL of Sheep Anti-Human/Rat P-Selectin/CD62P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF137) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.