

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse P-Selectin/CD62P in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant mouse (rm) L-Selectin, rmE-Selectin, or recombinant human P-Selectin is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 127933
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse P-Selectin/CD62P Trp42-Ala709 Accession # Q01102
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Mouse 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. Mouse P-Selectin cDNA encodes a 768 amino acid (aa) residue type I transmembrane protein with a 41 aa signal peptide, a 668 aa extracellular domain, a transmembrane domain and a short (35 aa) cytoplasmic domain. The extracellular domain has an NH₂-terminal C-type lectin domain and an EGF-like domain followed by a series of complement factor A repeat homology domains. The extracellular domains of human and mouse P-Selectin share approximately 73% sequence homology.

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