



Product Data Sheet

Mouse Anti-Human CD62P (P-Selectin)-PE/Cy5 conjugate

Catalog#	CD62PPC-25	Size	25 tests
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Antigen: CD62P
Antibody Host/type: Mouse, IgG1k
Product Forms: Purified, PE/Cy5 conjugation.
Reactivity: Human, Cross-Reactivity*: other species not tested
Distribution: Activated platelets, megakaryocytes, endothelial cells
Function: Adhesion, neutrophil rolling, platelet-neutrophil and platelet-monocyte interactions
Ligand Receptor: CD162 (PSGL-1), CD24 and sialylated Lewis x

DESCRIPTION

CD62P (P-selectin, GMP-140, PADGEM) is a 140 kD type I transmembrane glycoprotein also known as P-Selectin, platelet activation-dependent granule membrane protein (PADGEM), or GMP-140. It is expressed on activated platelets, megakaryocytes, and endothelial cells. CD62 is primarily stored in secretory α -granules in platelets and Weibel-Palade bodies in endothelial cells and is rapidly relocated to the plasma membrane upon activation. The ligands for CD62P are CD162 and CD24. A primary function of CD62P is cell adhesion during neutrophil rolling, platelet-neutrophil, and platelet-monocyte interactions

Antibody reacts with the 140 kDa membrane glycoprotein, P-Selectin, formerly known as platelet activation-dependent granule membrane protein (PADGEM), or GMP-140. P-Selectin is stored in the α -granules of platelets and the Weibel-Palade bodies of endothelial cells, and is rapidly transported to the plasma membrane upon activation. P-Selectin is thought to mediate the initial adhesive interactions of neutrophils and monocytes with endothelium in inflammatory responses, and of activated platelets to neutrophils and monocytes in hemostasis.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with, R-PE/Cy5 under optimum conditions. It is supplied in PBS, pH 7.5, 0.1% BSA, and 0.05% azide.

USAGE

Flow cytometry: The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. The conjugated reagent (R-PE/Cy5) is tested for flow cytometric analysis using 20 ul/10⁶ cells or 100 μ l peripheral blood cells. It may be recommended to use more antibody (40 ul/10⁶ cells) for better sensitivity or in cells with low concn of antigen.

PE-Cy5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the PE-Cy5 tandem fluorochrome, extra care must be taken when using dual-laser cytometers which may directly excite both PE and Cy5TM. CyTM is a trademark of Amersham Biosciences Limited.

Suggested matching isotype negative controls

#20102-101-PC5, Mouse IgG1-PE-Cy5 conjugate (isotype control), 50 Tests

STORAGE

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

Refs: McEver R (1995) JBC 270, 11025; Varki A (1994) PNAS 91, 7390

This product is for in vitro research use only.

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