Technical Data Sheet

Purified Rat Anti-Mouse CD62P

Product Information

Material Number:	**553742**
Alternate Name:	P-selectin
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	RB40.34
Immunogen:	P-selectin-IgG1 Fusion
Isotype:	Rat (LEW) IgG1, λ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The RB40.34 antibody reacts with mouse P-selectin (CD62P), a 140 kDa protein which is expressed on activated platelets, activated endothelial cells, and megakaryocytes. P-selectin mediates the adhesion of neutrophils and monocytes to activated platelets and endothelial cells, mediates leukocyte rolling, and is involved in the migration of leukocytes into inflamed tissues. CD24 and CD162 (PSGL-1) are ligands of CD62P. mAb RB40.34 can block mouse P-selectin binding to its ligands in vitro and in vivo.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
ELISA	Reported
Immunoprecipitation	Reported
Blocking	Reported
Immunofluorescence	Reported
Immunohistochemistry-frozen	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
554016	FITC Goat Anti-Rat Igs	0.5 mg	Polyclonal
553993	Purified Rat IgG1 Lambda Isotype Control	0.1 mg	A110-1

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

BD Biosciences
bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

BD BD Biosciences

References

Aigner S, Ruppert M, Hubbe M, et al. Heat stable antigen (mouse CD24) supports myeloid cell binding to endothelial and platelet P-selectin. *Int Immunol.* 1995; 7(10):1557-1565.(Biology)

Austrup F, Vestweber D, Borges E, et al. P- and E-selectin mediate recruitment of T-helper-1 but not T-helper-2 cells into inflammed tissues. *Nature.* 1997; 385(6611):81-83.(Clone-specific: Blocking)

Bosse R, Vestweber D. Only simultaneous blocking of the L- and P-selectin completely inhibits neutrophil migration into mouse peritoneum. *Eur J Immunol.* 1994; 24(12):3019-3024.(Immunogen: Blocking, ELISA, Flow cytometry, Immunoprecipitation)

Hirata T, Furie BC, Furie B. P-, E-, and L-selectin mediate migration of activated CD8+ T lymphocytes into inflamed skin. *J Immunol.* 2002; 169(8):4307-4313.(Clone-specific: Blocking)

Katakai T, Mori KJ, Masuda T, Shimizu A. Selective accumulation of type 1 effector cells expressing P-selectin ligand and/or alpha(4)beta(7)-integrin at the lesions of autoimmune gastritis. *Int Immunol.* 2002; 14(2):167-175.(Clone-specific: Immunohistochemistry)

Ley K, Bullard DC, Arbones ML, et al. Sequential contribution of L- and P-selectin to leukocyte rolling in vivo. *J Exp Med.* 1995; 181(2):669-675.(Clone-specific: Blocking)

Pendl GG, Robert C, Steinert M, et al. Immature mouse dendritic cells enter inflamed tissue, a process that requires E- and P-selectin, but not P-selectin glycoprotein ligand 1. *Blood.* 2002; 99(3):946-956.(Clone-specific: Blocking)

Tietz W, Allemand Y, Borges E, et al. CD4+ T cells migrate into inflamed skin only if they express ligands for E- and P-selectin. *J Immunol.* 1998; 161(2):963-970.(Clone-specific: Blocking)

Yang J, Galipeau J, Kozak CA, Furie BC, Furie B. Mouse P-selectin glycoprotein ligand-1: molecular cloning, chromosomal localization, and expression of a functional P-selectin receptor. *Blood.* 1996; 87(10):4176-4186.(Biology)