

Technical Data Sheet

PE Rat Anti-Mouse CD41

Product Information

Material Number:	558040
Alternate Name:	Integrin α IIb chain
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	MWReg30
Immunogen:	Mouse Platelets
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The MWReg30 antibody reacts with glycoprotein (gp) IIb, also called integrin α IIb chain (CD41), that associates with integrin β 3 chain (gpIIIa or CD61) to form the gpIIb/IIIa (CD41/CD61) complex. CD41/CD61 is expressed on platelets, megakaryocytes, and early hematopoietic progenitors. The integrin complex binds to fibrinogen, fibronectin, vitronectin, von Willebrand factor, and thrombospondin. It is important for platelet adhesion and aggregation, and it may play a role in osteolytic tumor metastasis.

Preparation and Storage

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553925	PE Rat IgG1, κ Isotype Control	0.1 mg	R3-34

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Bakewell SJ, Nestor P, Prasad S, et al. Platelet and osteoclast beta3 integrins are critical for bone metastasis. *Proc Natl Acad Sci U S A*. 2003; 100(24):14205-14210.(Biology)

Ferkowicz MJ, Starr M, Xie X, et al. CD41 expression defines the onset of primitive and definitive hematopoiesis in the murine embryo. *Development*. 2003; 130(18):4393-4403.(Biology)

Kieffer N, Phillips DR. Platelet membrane glycoproteins: functions in cellular interactions. *Annu Rev Cell Biol*. 1990; 6:329-357.(Biology)

Nieswandt B, Echtenacher B, Wachs FP, et al. Acute systemic reaction and lung alterations induced by an antiplatelet integrin gpIIb/IIIa antibody in mice. *Blood*. 1999; 94(2):684-693.(Immunogen)

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