

Technical Data Sheet

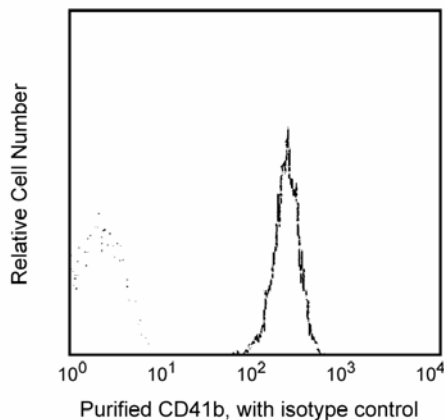
Purified Mouse Anti-Human CD41b

Product Information

Material Number:	555468
Alternate Name:	ITGA2B; CD41; GP2B; GPIIb; GPalph IIb; Platelet glycoprotein GPIIb
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	HIP2
Isotype:	Mouse IgG3, κ
Reactivity:	QC Testing: Human
Workshop:	IV P39
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

The HIP2 monoclonal antibody specifically binds to CD41b. CD41b/CD41 is encoded by the *ITGA2B* gene and is also known as Platelet glycoprotein GPIIb and Integrin alpha IIb. CD41 is transmembrane glycoprotein that is post-translationally processed into a disulfide linked α -chain and β -chain. CD41 combines with CD61, otherwise known as Glycoprotein IIIa or $\beta 3$ integrin, to form the CD41/CD61 (GPIIb/IIIa) complex. This complex is expressed on platelets and megakaryocytes and is involved in platelet activation, aggregation and binding to extracellular matrix proteins. Upon platelet activation, the CD41/CD61 complex can function as a receptor for fibrinogen, fibronectin and von Willebrand factor. In contrast to other CD41b antibodies, HIP2 does not detect anti-ZW α bound to GPIIb/IIIa. This antibody appears to be a weak aggregation inducer.



Flow cytometric analysis of CD41b expression on human platelets. Human platelets were stained with either Purified Mouse Anti-Human CD41b (Cat. No. 555468; solid line histogram) or Purified Mouse IgG3, κ Isotype Control (Cat. No. 555577; dashed line histogram), followed by FITC Goat Anti-Mouse IgG/IgM (Cat. No. 555988). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of platelets.

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
----------------	------------------

Suggested Companion Products

Catalog Number	Name	Size	Clone
555577	Purified Mouse IgG3, κ Isotype Control	0.1 mg	J606
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
554656	Stain Buffer (FBS)	500 ml	(none)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.268.5430	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD



Product Notices

1. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Knapp W, Dörken B, Gilks WR, et al, ed. *Leucocyte Typing IV*. New York, NY: Oxford University Press; 1989:1-1182. (Clone-specific)
Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (Biology)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.268.5430	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD

