

Technical Data Sheet

FITC Mouse Anti-Rat CD61

Product Information

Material Number:	554952
Alternate Name:	Integrin $\beta 3$ chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	F11
Immunogen:	Rat bone cell suspensions
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The F11 antibody reacts with the integrin $\beta 3$ chain (CD61), which associates with the integrin αv chain (CD51), to form the vitronectin receptor found on endothelial cells, myeloid cells, and osteoclasts, and with the αIIb chain (CD41) on platelets and megakaryocytes. Both receptors mediate adhesion to fibronectin, fibrinogen, vitronectin, thrombospondin, and von Willebrand factor. F11 mAb has been reported to block the in vitro attachment of osteoclasts to several ligands. Weak reactivity with human osteoclasts, megakaryocytes, and platelets has also been observed. Other reported applications include immunoprecipitation, in vitro blocking, and immunohistochemical staining (IHC) of acetone-fixed frozen and zinc-fixed paraffin-embedded sections. IHC of formalin-fixed paraffin-embedded sections is not recommended.

Preparation and Storage

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

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

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

Application Notes

Application

Flow cytometry	Routinely Tested
----------------	------------------

Recommended Assay Procedure:

Other applications: The purified format of the F11 clone has been reported to be useful in immunoprecipitation and IHC on frozen or zinc-fixed sections. Please note that these applications are not tested at BD Biosciences Pharmingen. This clone is also available in the no azide/low endotoxin format (NA/LE) as Cat. No. 554950.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550616	FITC Mouse IgG1, κ Isotype Control	0.25 mg	MOPC-31C

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.

References

Helfrich MH, Nesbitt SA, Dorey EL, Horton MA. Rat osteoclasts adhere to a wide range of RGD (Arg-Gly-Asp) peptide-containing proteins, including the bone sialoproteins and fibronectin, via a beta 3 integrin. *J Bone Miner Res.* 1992; 7(3):335-343.(Clone-specific: Blocking)
 Helfrich MH, Nesbitt SA, Horton MA. Integrins on rat osteoclasts: characterization of two monoclonal antibodies (F4 and F11) to rat beta 3. *J Bone Miner Res.* 1992; 7(3):346-351.(Immunogen: Immunoprecipitation)
 Kieffer N, Phillips DR. Platelet membrane glycoproteins: functions in cellular interactions. *Annu Rev Cell Biol.* 1990; 6:329-357.(Biology)

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/

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.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD

