

Technical Data Sheet

FITC Mouse Anti-Rat CD61

Product Information

Material Number:	561909
Alternate Name:	Integrin β 3 chain
Size:	50 μ g
Concentration:	0.5 mg/ml
Clone:	F11
Immunogen:	Rat (Sprague-Dawley) 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 β 3 chain (CD61), which associates with the integrin α v chain (CD51), to form the vitronectin receptor found on endothelial cells, myeloid cells, and osteoclasts, and with the α IIb 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 reported.

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 FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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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
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

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

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)

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