Technical Data Sheet

Purified NA/LE Mouse Anti-Rat CD61

Product Information

Material Number:	**554950**
Alternate Name:	Integrin β3 chain
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	F11
Immunogen:	Rat bone cell suspensions
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2μm filtered. Endotoxin level is ≤0.01 ng/μg of protein.

Description

The F11 antibody reacts with the integrin β3 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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.
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
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-zinc-fixed	Tested During Development
Blocking	Reported
Immunoprecipitation	Reported
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended

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.

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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