Technical Data Sheet

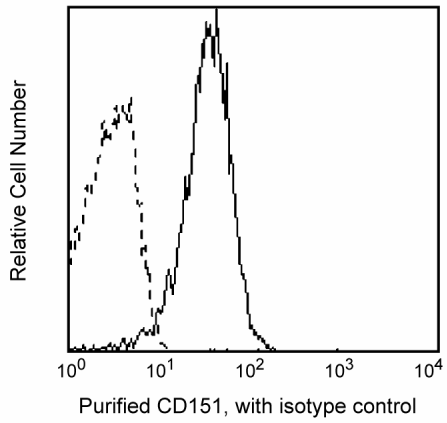
Purified Mouse Anti-Human CD151

Product Information

Material Number:	**556056**
Alternate Name:	PETA-3
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	14A2.H1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI E12,P49
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with platelet-endothelial cell tetraspan antigen-3 (PETA-3), a 27 kD membrane glycoprotein, expressed on platelets, megakaryocytes, lymphocytes (weak), monocytes, endothelial cells and epithelial cells. PETA-3 (CD151) associates with β1 integrin in certain tissues. This has also been shown with other tetraspan superfamily members, like CD9, CD63 and α5β1. Reports indicate that this association or colocalization of CD151 with β1 integrin in tissues suggests a functional role of this molecule, however, this role has not been elucidated yet. It has also been reported that antibody 14A2.H1 is capable of platelet activation in vitro. Studies showed that different clones of CD151 monoclonal antibodies display strikingly different patterns of binding to human haemopoietic cells and tissue sections, and that this is due at least in part to the presence of the protein in complexes with different integrins.



Profile of peripheral blood platelets analyzed by flow cytometry

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
Immunohistochemistry-frozen	Reported
Immunoprecipitation	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone

BD Biosciences

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877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

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555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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

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Fitter S, Tetaz TJ, Berndt MC, Ashman LK. Molecular cloning of cDNA encoding a novel platelet-endothelial cell tetra-span antigen, PETA-3. *Blood.* 1995; 86(4):1348-1355.(Biology)

Geary SM, Cambareri AC, Sincock PM, et al. *Tissue Antigens.* 2001; 58:141-153.(Clone-specific: Flow cytometry, Immunohistochemistry, Immunoprecipitation)

Roberts JJ, Rodgers SE, Drury J, Ashman LK, Lloyd JV. Platelet activation induced by a murine monoclonal antibody directed against a novel tetra-span antigen. *Br J Haematol.* 1995; 89(4):853-860.(Biology)

Sincock PM, Mayrhofer G, Ashman LK. Localization of the transmembrane 4 superfamily (TM4SF) member PETA-3 (CD151) in normal human tissues: comparison with CD9, CD63, and alpha5beta1 integrin. *J Histochem Cytochem.* 1997; 45(4):515-525.(Biology)