Technical Data Sheet Purified Mouse Anti-Human CD49e

Product Information	
Material Number:	610634
Alternate Name:	Integrin a5
Size:	150 μg
Concentration:	250 μg/ml
Clone:	1/CD49e
Immunogen:	Human Integrin α5 aa. 853-1002
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human
Target MW:	150 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

Description

Integrins are membrane receptors that mediate cell-cell or cell-matrix adhesion. They are transmembrane heterodimers composed of α and β subunits and are connected to the cytoskeleton. At least 20 integrins, formed from combinations of 12 α and 9 β subunits, have been reported. Many of these have been implicated as transducers of molecular signals. The integrin α 5 subunit is 1049 amino acids with a molecular weight of 150-165 kDa. α 5 and β 1 form a functional fibronectin receptor which is important for vascular development in mice. Both subunits of the fibronectin receptor are heavily glycosylated in their extracellular domains. This modification is essential for proper cell attachment to basal membranes. Integrin α 5 has been reported to suppress apoptosis by a Bcl-2 pathway and the C-terminal region is critical for cell motility and cytoskeletal rearrangements.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

Store undiluted at -20° C. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Application Notes

Application

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	Western blot	Routinely Tested
	Immunoprecipitation	Tested During Development
	Immunofluorescence	Not Recommended
	Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results. 1.
- 2. 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.
- 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols. 4.

References

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Sottile J, Hocking DC. Fibronectin polymerization regulates the composition and stability of extracellular matrix fibrils and cell-matrix adhesions. Mol Biol Cell. 2002; 13(10):3546-3559.(Biology: Immunofluorescence)

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