Technical Data Sheet

Integrins Sampler Kit

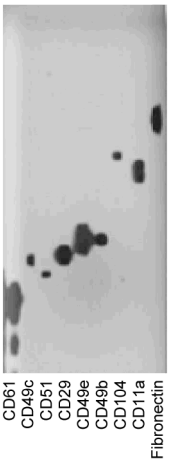
Product Information

Material Number:	**611435**
Size:	10 µg
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Cell adhesion to extracellular matrix (ECM) components has been reported to be mediated by the integrins. These proteins link the ECM to the intracellular cytoskeletal network and to multiple intracellular signaling pathways whose activation is important for cell survival, growth, and differentiation. Integrins contain noncovalently associated α and β subunits that consist of a large extracellular region (the ligand binding domain), a short transmembrane region, and a cytoplasmic domain of varying length. In mammals, at least 17 α and 8 β subunits have been identified and these proteins can heterodimerize to form 22 different receptors. Some integrins interact with only one specific ligand. It is more common that a specific integrin recognizes multiple ligands. There is a high degree of redundancy, so that integrins which interact identically with a particular ligand do not necessarily induce the same cellular response. Either one or both subunits directly interact with a number of proximal intracellular signaling components such as cytoskeletal proteins (talin, fibronectin, α-actinin), adaptor molecules (paxillin, RACK1, p130Cas), Ca2+ binding proteins (CIB and calreticulin), and protein kinases (FAK and ILK). Such interactions initiate multiple pathways that signal in the traditional "outside-in" signaling process. When bound by ligand, they may form signaling connections with intracellular components or may remain detached from the cytoskeleton and signaling pathways. In the absence of intracellular signaling, integrin ligation can promote the assembly and organization of the intercellular ECM.

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



Each antibody has been tested on an appropriate positive control lysate (see table).

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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Antibody	Cat#	Isotype	MW	WB	IP	IF	IH	Human	Dog	Rat	Mouse	Chick	Control	Dilution
Fibronectin	610077	IgG1	240	+	nat/den	+	+	+	+	+	+	+	A431	1:5000
CD49b (Integrin α2)	611016	IgG2a	150	+		+		+			+		HeLa	1:250
CD49c (Integrin α3)	611044	IgG1	135	+		+			+	+			Rat Kidney	1:250
CD49e (Integrin α5)	610633	IgG2a	150	+	nat/den	-	-	+					HeLa	1:5000
CD11a (Integrin αL)	610826	IgG1	180	+	-	+	-	+			+		Jurkat	1:500
CD51 (Integrin αV)	611012	IgG1	125	+		+		+	+	+	+		Rat Cerebrum	1:250
CD29 (Integrin β1)	610467	IgG1	130	+	den	+	+	+	+	+		+	A431	1:2500
CD61 (Integrin β3)	611140	IgG1	104	+		+		+					H. Platelets	1:2500
CD104 (Integrin β4)	611232	IgG1	200	+		+		+					A431	1:250

IP: nat = native conditions, den = denaturing conditions
Dilutions are recommended based on western blotting on the indicated positive control
This kit includes 10 µg of each antibody listed at a concentration of 250 µg/ml. No substitutions allowed.

Application Notes

Application

Western blot	Routinely Tested

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
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.