Technical Data Sheet

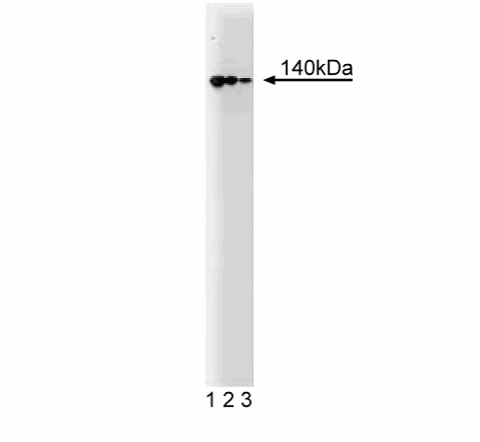
Purified Mouse Anti-Kalinin B1

Product Information

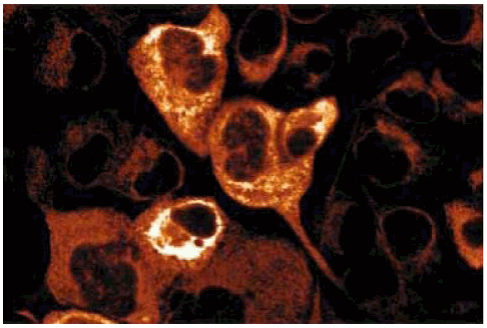
Material Number:	**610423**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	17/Kalinin B1
Immunogen:	Human Kalinin B1 aa. 1009-1170
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog
Target MW:	140 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Kalinin is an epithelial cell laminin. It is a structural component of the dermal-epidermal junction of skin and basement membrane. The full molecule is composed of a 200 kDa A subunit, a 155 kDa B2 subunit, and a 140 kDa B1 subunit. Another B1k subunit with a predicted molecular weight of 126.9 kDa is encoded by a 3.9kb gene. The apparent molecular weight of Kalinin B1k is 140 kDa due to glycosylation. Its structure is divided into a long arm and a short arm domain that bind and crosslink with the other kalinin subunits.



Western blot analysis of Kalinin B1 on human endothelial lysate. *Lane 1: 1:1000, lane 2: 1: 2000, lane 3: 1:4000 dilution of Kalinin B1.*



Immunofluorescence staining of A431 cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes

Application

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611450	Human Endothelial Cell Lysate	500 µg	(none)

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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.

References

Gerecke DR, Wagman DW, Champliaud MF, Burgeson RE. The complete primary structure for a novel laminin chain, the laminin B1k chain. *J Biol Chem.* 1994; 269(15):11073-11080.(Biology)

Hirosaki T, Mizushima H, Tsubota Y, Moriyama K, Miyazaki K. Structural requirement of carboxyl-terminal globular domains of laminin alpha 3 chain for promotion of rapid cell adhesion and migration by laminin-5. *J Biol Chem.* 2000; 275(29):22495-22502.(Clone-specific: Western blot)

Hirosaki T, Tsubota Y, Kariya Y, Moriyama K, Mizushima H, Miyazaki K. Laminin-6 is activated by proteolytic processing and regulates cellular adhesion and migration differently from laminin-5. *J Biol Chem.* 2002; 277(51):49287-49295.(Clone-specific: Western blot)