Technical Data Sheet

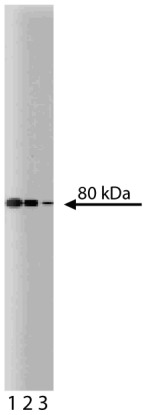
Purified Mouse Anti-Ezrin

Product Information

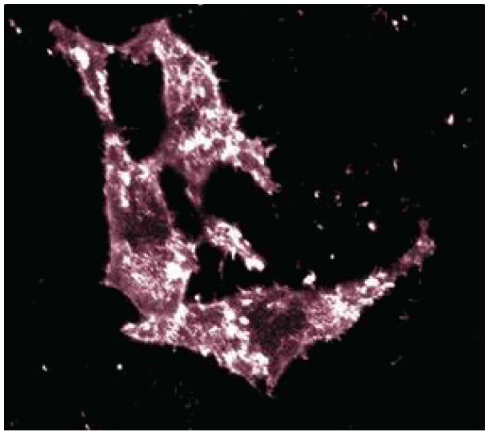
Material Number:	**610602**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	18/Ezrin
Immunogen:	Human Ezrin aa. 391-515
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Dog Tested in Development: Human
Target MW:	80 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

First described as an 80kDa protein concentrated in the apical cytoskeletal region of intestinal brush border cells, ezrin is now recognized as a major substrate of protein tyrosine kinases, such as the epidermal growth factor (EGF) tyrosine kinase. Ezrin is expressed at high levels in intestine, kidney, and placenta. In placenta, ezrin is present as monomers and non-covalent oligomers in tight association with actin microfilaments. In the human epidermoid carcinoma cell line A431, microvilli-like structures appear within 30 seconds after the addition of EGF. These structures give way to membrane ruffles after 2-5 minutes, followed by cell rounding after 10-20 minutes. At the same time, ezrin is recruited into these structures and oligomers are formed following its tyrosine phosphorylation. It is thought that tyrosine phosphorylation triggers the formation of ezrin oligomers.



Western blot analysis of Ezrin on MDCK lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Ezrin.*



Immunofluorescent staining of HeLa cells.

Preparation and Storage

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

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Application Notes

Application

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
611635	MDCK Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Anastasiadis PZ, Moon SY, Thoreson MA, et al. Inhibition of RhoA by p120 catenin. *Nat Cell Biol.* 2000; 2(9):637-644.(Clone-specific: Immunofluorescence)

Berryman M, Gary R, Bretscher A. Ezrin oligomers are major cytoskeletal components of placental microvilli: a proposal for their involvement in cortical morphogenesis. *J Cell Biol.* 1995; 131(5):1231-1242.(Biology)

Defacque H, Egeberg M, Habermann A, et al. Involvement of ezrin/moesin in de novo actin assembly on phagosomal membranes. *EMBO J.* 2000; 19(2):199-212. (Clone-specific: Western blot)

Mohler PJ, Kreda SM, Boucher RC, Sudol M, Stutts MJ, Milgram SL. Yes-associated protein 65 localizes p62(c-Yes) to the apical compartment of airway epithelia by association with EBP50. *J Cell Biol.* 1999; 147(4):879-890.(Clone-specific: Immunofluorescence)

Perez OD, Kinoshita S, Hitoshi Y, et al. Activation of the PKB/AKT pathway by ICAM-2. *Immunity.* 2002; 16(1):51-65.(Clone-specific: Immunoprecipitation, Western blot)