

## Technical Data Sheet

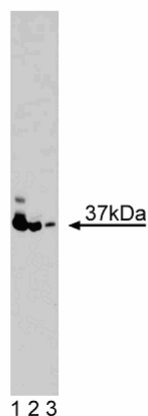
## Purified Mouse Anti-PINCH

## Product Information

<b>Material Number:</b>	612711
<b>Size:</b>	150 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	49/PINCH
<b>Immunogen:</b>	Human PINCH aa. 120-220
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Human Reactivity Confirmed in Development: Rat, Mouse Lack of Reactivity Confirmed in Development: Dog, Chicken
<b>Target MW:</b>	37 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Integrins are transmembrane receptors that mediate cell-cell or cell-matrix adhesion. All integrins are heterodimers composed of  $\alpha$  and  $\beta$  subunits, which interact with extracellular matrix and cytoskeletal proteins. Signal transduction through integrin receptors may be regulated by integrin-linked kinase (ILK). ILK is a widely expressed Ser/Thr protein kinase that contains four ankyrin-like repeats in the N-terminal region, a phosphoinositide lipid-binding motif at amino acids 180-212, and an integrin binding site at amino acids 293-451. The ankyrin repeats interact with a LIM domain-only protein called PINCH that also binds the adaptor protein, Nck-2. This interaction implicates ILK in growth factor receptor pathways. The PINCH adaptor protein also contains a leucine-rich nuclear export signal and a nuclear localization signal. These two motifs implicate PINCH in nuclear functions, and in Schwann cells PINCH has been found in the nucleus, as well as, cytoplasm and perinuclear regions. Thus, PINCH is an adaptor protein that functions in both integrin signaling and nuclear functions.



**Western blot analysis of PINCH on K-562 lysate.** Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-PINCH antibody.

## 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	Not Recommended

## Recommended Assay Procedure:

Western blot: Please refer to [http://www.bdbiosciences.com/pharming/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharming/protocols/Western_Blotting.shtml).

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
611550	K-562 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	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/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/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

Campana WM, Myers RR, Rearden A. Identification of PINCH in Schwann cells and DRG neurons: shuttling and signaling after nerve injury. *Glia*. 2003; 41(3):213-223.(Biology)

Tu Y, Li F, Goicoechea S, Wu C. The LIM-only protein PINCH directly interacts with integrin-linked kinase and is recruited to integrin-rich sites in spreading cells. *Mol Cell Biol*. 1999; 19(3):2425-2434.(Biology)

Tu Y, Li F, Wu C. Nck-2, a novel Src homology2/3-containing adaptor protein that interacts with the LIM-only protein PINCH and components of growth factor receptor kinase-signaling pathways. *Mol Biol Cell*. 1998; 9(12):3367-3382.(Biology)