

Technical Data Sheet

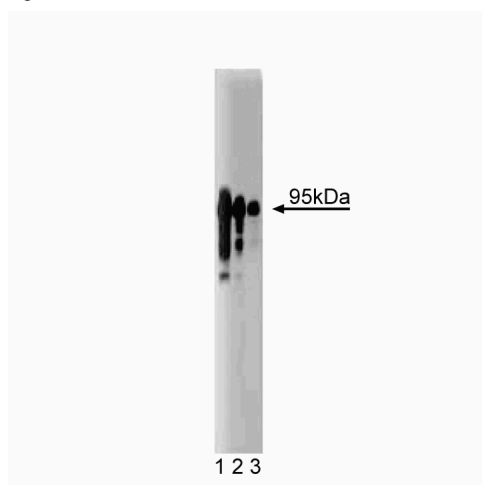
Purified Mouse Anti-p95PKL/GIT**Product Information**

Material Number:	611388
Alternate Name:	Paxillin-Kinase Linker
Size:	50 µg
Concentration:	250 µg/ml
Clone:	13/P95PKL
Immunogen:	Chicken p95PKL aa. 140-472
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human
Target MW:	95 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

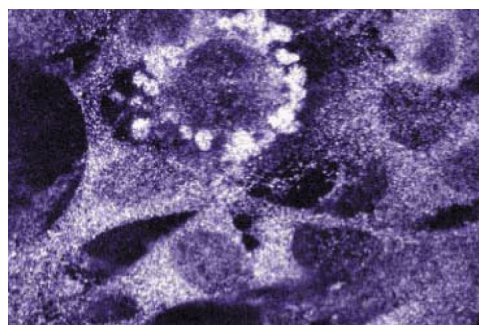
Description

Paxillin is involved in the integration of growth factor- and adhesion-mediated signal transduction pathways at focal adhesion sites. The LD motif of paxillin has been implicated in its binding to FAK, vinculin, and paxillin-kinase linker (p95PKL). p95PKL couples paxillin to a protein complex containing p21 GTPase-activated kinase (PAK), Nck, and the guanine nucleotide exchange factor, PIX. The sequence of p95PKL, highly homologous to human GIT1 and GIT2, predicts a structure that contains an N-terminal ARF-GAP domain containing a Zn²⁺ finger, three ankyrin repeats, an EF hand domain, and two IQ motifs. p95PKL binds to both paxillin and PIX and colocalizes with paxillin at focal adhesion sites. Overexpression of a paxillin LD4 deletion mutant in neuroblastoma cells inhibits insulin-like growth factor-1 mediated lamellipodia formation. Microinjection of this mutant into NIH3T3 cells has been reported to decrease migration into a wound. These alterations in cell motility are thought to involve PAK-mediated regulation of the actin cytoskeleton, since the LD4 motif of paxillin is required for p95PKL-dependent recruitment of PAK/PIX complexes to paxillin-containing focal adhesions sites. This antibody has been reported to recognize GIT1 and GIT2 proteins.

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.



Western blot analysis of p95PKL/GIT on a rat cerebrum lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-p95PKL/GIT antibody.



Immunofluorescence staining of NIH/3T3 cells (Mouse embryo fibroblast cells; ATCC CRL-1658).

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

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	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/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

Ku GM, Yablonski D, Manser E, Lim L, Weiss A. A PAK1-PIX-PKL complex is activated by the T-cell receptor independent of Nck, Sip-76 and LAT. *EMBO J.* 2001; 20(3):457-465.(Biology: Western blot)
Turner CE, Brown MC, Perrotta JA, et al. Paxillin LD4 motif binds PAK and PIX through a novel 95-kD ankyrin repeat, ARF-GAP protein: A role in cytoskeletal remodeling. *J Cell Biol.* 1999; 145(4):851-863.(Immunogen)