

## Technical Data Sheet

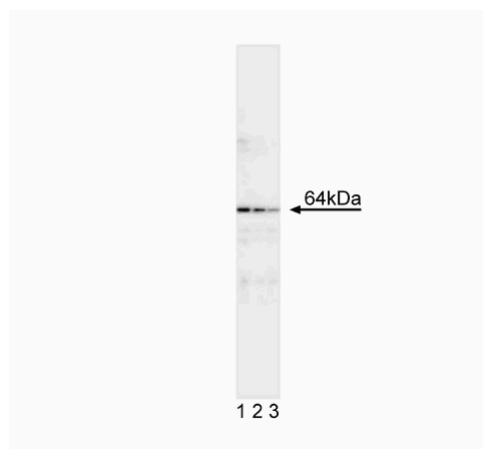
## Purified Mouse Anti-Human PAK4

## Product Information

<b>Material Number:</b>	<b>551358</b>
<b>Clone:</b>	E40-883
<b>Immunogen:</b>	Human PAK4 recombinant fusion protein
<b>Reactivity:</b>	QC Testing: Human
<b>Target MW:</b>	64 kDa
<b>Component:</b>	<b>51-16516N</b>
<b>Description:</b>	HeLa Control Lysate
<b>Size:</b>	50 µg (1 ea)
<b>Concentration:</b>	1.0 mg/ml
<b>Storage Buffer:</b>	SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)
<b>Component:</b>	<b>51-8102KC</b>
<b>Description:</b>	Purified Mouse Anti-Human PAK4
<b>Size:</b>	50 µg (1 ea)
<b>Concentration:</b>	0.5 mg/ml
<b>Clone Name:</b>	E40-883
<b>Isotype:</b>	Mouse IgG1, κ
<b>Storage Buffer:</b>	Aqueous buffered solution containing ≤0.09% sodium azide.

## Description

p21/Rac/Cdc42 activated kinases (PAKs) are serine/threonine kinases which regulate morphological and cytoskeletal changes in a variety of cell types, and are also implicated in MAP kinase pathways. PAKs contain an N-terminal regulatory domain and a C-terminal catalytic domain, and become activated following proteolytic cleavage between these regions. The activity of PAKs has been shown to be regulated by the GTPases Rac and Cdc42.1 Several members of the PAK family have been identified and implicated in regulation of the cytoskeletal organization induced by Rac and Cdc42, however, the cytoskeletal organizational change can occur independently of the known PAKs. PAK4 has been shown to provide a direct link between Cdc42 activation and cytoskeleton organization. PAK4 consists of 591 amino acids with a predicted molecular weight of about 64 kDa. The antibody recognizes human PAK4. A purified recombinant 6xHis-tagged fusion protein corresponding to the full length of human PAK4 was used as the immunogen.



**Western blot analysis of PAK4.** Lysate from HeLa cells was probed with anti-PAK4 (clone E40-883, Cat. No. 551358) at concentrations of 2.0 (lane 1), 1.0 (lane 2), and 0.5 µg/ml (lane 3). PAK4 is identified as a band of ~64 kDa.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store the antibody Cat. No. 51-8102KC at 4°C. Store the HeLa control lysate Cat. No. 51-16516N at -20°C.

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## Application Notes

### Application

Western blot	Routinely Tested
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### Recommended Assay Procedure:

HeLa control lysate [50 µg (1 µg/µl)] is provided as a positive control (Cat. No. 51-16516N; store lysate at -20°C). Additional HeLa lysate (Cat. No. 611449) is sold separately as a ready-to-use western blot control.

### Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa 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.

### References

Abo A, Qu J, Cammarano MS, et al. PAK4, a novel effector for Cdc42Hs, is implicated in the reorganization of the actin cytoskeleton and in the formation of filopodia. *EMBO J.* 1998; 17(22):6527-6540.(Biology)  
Knaus UG, Morris S, Dong HJ, Chernoff J, Bokoch GM. Regulation of human leukocyte p21-activated kinases through G protein--coupled receptors. *Science.* 1995; 269(5221):221-223.(Biology)