

Technical Data Sheet

Purified Mouse anti-Actopaxin (pS8)

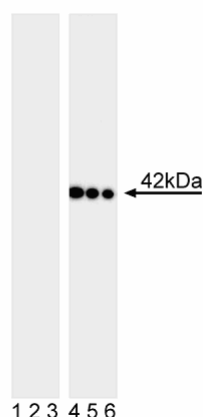
Product Information

Material Number:	558374
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	J160-366
Immunogen:	Phosphorylated Human and Rat Actopaxin
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Target MW:	42 kDa
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Actopaxin (also known as α -parvin or CH-ILKBP) is an adaptor protein that is found in focal adhesions (FA), where integrins in the cell membrane interact with the extracellular matrix, links the FA to the actin cytoskeleton, and is involved in the transduction of intracellular signals. The actopaxin molecule is composed almost entirely of two tandem calponin homology (CH) domains. The C-terminal CH domain mediates binding to paxillin, actin, and the serine/threonine kinases integrin-linked kinase and testicular protein kinase I. Serines in the N terminus of Actopaxin are phosphorylated by cyclin B/cdc2 during mitosis or by Erk during cell migration. This is consistent with the possibility that actopaxin is involved in regulating the organization of the cellular actin cytoskeleton. Actopaxin is expressed in nearly all tissues, whereas the β -parvin and γ -parvin have tissue-restricted expression.

The J160-366 monoclonal antibody recognizes the phosphorylated S8 of human actopaxin.



Western blot analysis of Actopaxin (pS8) in transformed human epithelioid carcinoma. Lysates from control (left panel) and Nocodazole-treated (right panel) HeLa S3 cell line were probed with purified mouse anti-Actopaxin (pS8) monoclonal antibody at concentrations of 4.0 (lanes 1 and 4), 2.0 (lanes 2 and 5), and 1.0 $\mu\text{g/ml}$ (lanes 3 and 6). Actopaxin (pS8) is identified as a band of 42 kDa in the treated cells.

Preparation and Storage

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

Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
--------------	------------------

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



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

- Clarke DM, Brown MC, LaLonde DP, Turner CE. Phosphorylation of actopaxin regulates cell spreading and migration. *J Cell Biol.* 2004; 166(6):901-912.(Biology)
- Curtis M, Nikolopoulos SN, Turner CE. Actopaxin is phosphorylated during mitosis and is a substrate for cyclin B1/cdc2 kinase. *Biochem J.* 2002; 363:233-242. (Biology)
- Korenbaum E, Olski TM, Noegel AA. Genomic organization and expression profile of the parvin family of focal adhesion proteins in mice and humans. *Gene.* 2001; 279:69-79.(Biology)
- LaLonde DP, Brown MC, Bouverat BP, Turner CE. Actopaxin interacts with TESK1 to regulate cell spreading on fibronectin. *J Biol Chem.* 2005; 280(22):21680-21688.(Biology)
- Nikolopoulos SN, Turner CE. Molecular dissection of actopaxin-integrin-linked kinase-paxillin interactions and their role in subcellular localization. *J Biol Chem.* 2002; 277(2):1568-1575.(Biology)
- Wu C. The PINCH-ILK-parvin complexes: assembly, functions and regulation. *Biochim Biophys Acta.* 2004; 1692(2-3):55-62.(Biology)