Technical Data Sheet

Purified Mouse Anti-Disabled-2/p96

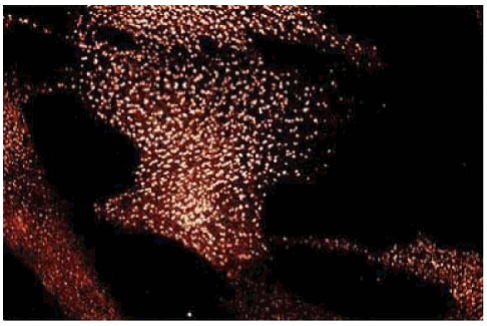
Product Information

Material Number:	**610464**
Alternate Name:	Disabled-2
Size:	50 µg
Concentration:	250 µg/ml
Clone:	52/p96
Immunogen:	Mouse p96 aa. 31-45
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Rat
Target MW:	96 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

CSF-1 is a growth factor that stimulates the growth and differentiation of immature lymphocytes and is required for the survival of mononuclear phagocytes. Binding of CSF-1 induces dimerization and autophosphorylation of its receptor. This results in the activation of several signal transduction pathways. A unique 96 kDa protein is a component in the CSF-1 signal transduction cascade. p96 is phosphorylated on serine following mitogenic stimulation of a mouse macrophage cell line. p96 contains three potential C-terminal ERK kinase phosphorylation sites, as well as several proline-rich sequences that are potential binding sites for SH3-containing proteins. Structural similarities have been found between p96 and Dab, a product of the *Drosophila disabled* gene, and p96 was also identified as Disabled-2 (Dab-2) and as **d**ifferentially expressed in **o**varian **c**arcinoma-2 (DOC-2) . Dab-2/p96 has been shown to be essential for TGFβ signaling by facilitating signal transduction from the TGFβ receptor to the Smad family of transcription factors. Thus, Dab-2/p96 is an important adaptor molecule in growth factor signaling pathways.

Western blot analysis of p96 on BC3H1 lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of p96.*



Immunofluorescence staining of Human Fibroblast cells.

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	Tested During Development
Immunohistochemistry	Not Recommended
Immunoprecipitation	Not Recommended

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Suggested Companion Products

Catalog Number	Name	Size	Clone
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

Hocevar BA, Smine A, Xu XX, Howe PH. The adaptor molecule Disabled-2 links the transforming growth factor beta receptors to the Smad pathway. *EMBO J.* 2001; 20(11):2789-2801.(Clone-specific: Western blot)

Mishra SK, Keyel PA, Hawryluk MJ, Agostinelli NR, Watkins SC, Traub LM. Disabled-2 exhibits the properties of a cargo-selective endocytic clathrin adaptor. *EMBO J.* 2002; 21(18):4915-4926.(Clone-specific: Immunofluorescence, Western blot)

Smith ER, Capo-chichi CD, He J. Disabled-2 mediates c-Fos suppression and the cell growth regulatory activity of retinoic acid in embryonic carcinoma cells. *J Biol Chem.* 2001; 276(650):47303-47310.(Clone-specific: Western blot)

Xu XX, Yang W, Jackowski S, Rock CO. Cloning of a novel phosphoprotein regulated by colony-stimulating factor 1 shares a domain with the Drosophila disabled gene product. *J Biol Chem.* 1995; 270(23):14184-14191.(Biology)