Technical Data Sheet

Purified Mouse Anti-Human DAP Kinase

Product Information

610290 **Material Number:** 50 μg $250 \mu g/ml$ **Concentration:** 17/DAP Kinase Clone:

Human DAP Kinase aa. 694-947 Immunogen:

Mouse IgG1 Isotype: QC Testing: Human Reactivity:

Target MW:

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

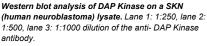
azide.

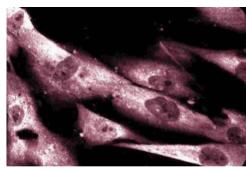
Description

Chronic exposure to extracellular signals such as interferons induce the inhibition of cell proliferation followed by cell death. The gene for DAP Kinase (Death Associated Protein Kinase) was identified using a novel approach named Technical Knockout. Briefly, Hela cells were transfected with an antisense cDNA expression library, then exposed to Interferon-y. The surviving cells, with their antisense cDNAs, were rescued and the "protecting" genes isolated. The DAP Kinase gene encodes a protein of 1423 amino acids, a molecular weight of 160kDa, a kinase domain at its amino terminal region, ankyrin repeats in the middle region, and a death domain at the extreme C-terminus. DAP Kinase phosphorylates at Ser/Thr residues in a Ca2+/Calmodulin-dependent fashion. It has been demonstrated that Ca2+/Calmodulin binds directly to DAP Kinase at its amino terminal region. In addition, immunostaining studies localized DAP Kinase in association with the actin filaments where it may phosphorylate myosin light chain. Thus, this novel cytoskeletal and Ca2+/Calmodulin-dependent protein kinase plays a role in interferon-y-induced cell death.

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.







Immunoflourescence staining of human fibroblasts.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

BD Biosciences

bdbiosciences.com

United States Europe 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 Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation drap 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. ©2006 BD



Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
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/pharmingen/protocols for technical protocols.
- 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

Cohen O, Feinstein E, Kimchi A. DAP-kinase is a Ca2+/calmodulin-dependent, cytoskeletal-associated protein kinase, with cell death-inducing functions that depend on its catalytic activity. *EMBO J.* 1997; 16(5):998-1008.(Biology)

Deiss LP, Feinstein E, Berissi H, Cohen O, Kimchi A. Identification of a novel serine/threonine kinase and a novel 15-kD protein as potential mediators of the gamma interferon-induced cell death. *Genes Dev.* 1995; 9(1):15-30.(Biology)

610290 Rev. 1 Page 2 of 2