

Datasheet for ABIN967885

anti-DAP Kinase 1 antibody (AA 694-947)

3 Images

2 Publications



[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	DAP Kinase 1 (DAPK1)
Binding Specificity:	AA 694-947
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DAP Kinase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human DAP Kinase aa. 694-947
Clone:	17-DAP Kinase
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: DAP Kinase 1 (DAPK1)

Alternative Name: DAP Kinase ([DAPK1 Products](#))

Background: 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-gamma. 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-gamma-induced cell death. This antibody is routinely tested by western blot analysis.

Molecular Weight: 160 kDa

Pathways: [MAPK Signaling](#), [Interferon-gamma Pathway](#)

Application Details

Comment: Related Products: [ABIN967389](#)

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

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

Preservative: Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

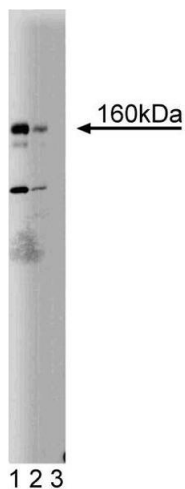
Storage Comment: Store undiluted at -20° C.

Publications

Product cited in: Cohen, Feinstein, Kimchi: "DAP-kinase is a Ca²⁺/calmodulin-dependent, cytoskeletal-associated protein kinase, with cell death-inducing functions that depend on its catalytic activity." in: **The EMBO journal**, Vol. 16, Issue 5, pp. 998-1008, (1997) ([PubMed](#)).

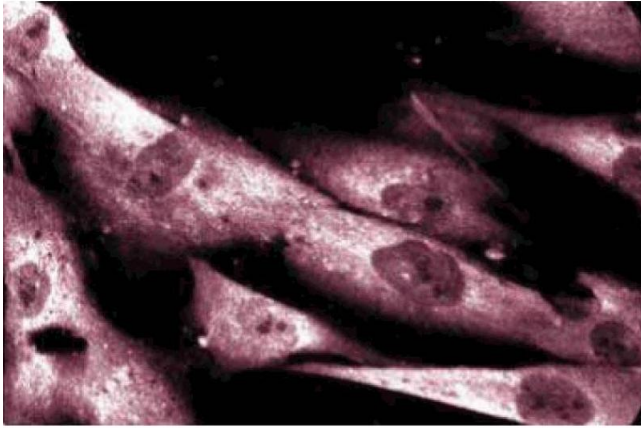
Deiss, Feinstein, Berissi, Cohen, Kimchi: "Identification of a novel serine/threonine kinase and a novel 15-kD protein as potential mediators of the gamma interferon-induced cell death." in: **Genes & development**, Vol. 9, Issue 1, pp. 15-30, (1995) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of DAP Kinase on a SKN (human neuroblastoma) lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- DAP Kinase antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human fibroblasts.

Image 3.

