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Product Information

**MONOCLONAL ANTI-DEATH ASSOCIATED
PROTEIN (DAP) KINASE
CLONE DAPK-55
Mouse Ascites Fluid**

Product No. **D 2178**

Product Description

Monoclonal Anti-Death Associated Protein (DAP) Kinase (mouse IgG1 isotype) is derived from the DAPK-55 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice. Recombinant DAP kinase, expressed in bacteria was used as immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

Monoclonal Anti-Death Associated Protein (DAP) Kinase recognizes the death associated protein (DAP) kinase (160 kDa) in immunoblotting and immunoprecipitation.

Monoclonal Anti-Death Associated Protein (DAP) Kinase may be used for the detection and quantification of kinase activity of DAP Kinase using various immunochemical assays such as immunoblot and immunoprecipitation.

Death associated protein kinase (DAP-kinase)¹ is a novel, structurally unique, human serine/threonine kinase identified as a positive mediator of interferon- γ -induced programmed cell death. Expression of anti-sense DAP-kinase RNA in HeLa cells reduced their susceptibility to programmed cell death, but did not interfere with a necrotic type of cell death. The protein consists of 1,423 amino acids (160 kDa) and belongs to a family of calmodulin-dependent protein kinases. Besides the kinase domain and the calmodulin regulatory domain, the protein possesses 8 ankyrin repeats and 2 potential P-loop motifs. DAP-kinase has an intrinsic kinase activity towards itself that is regulated by calmodulin and calcium. The gene is widely expressed in many tissues of embryonic and adult origin and gives rise to a single 6.3 Kb mRNA transcript. The gene was mapped to human chromosome 9q34.1.

Reagents

The product is provided as ascites fluid with 0.1% sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Product Profile

The minimum antibody titer of 1:250 was determined by indirect immunoblotting using a COS-7 cell extract.

In order to obtain best results, it is recommended that each user determine the optimal working dilution for individual applications by titration assay.

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Reference

1. Deiss, L., et al., Genes & Develop., **9**, 15 (1995).

PCS 3/00

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Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.

Please see reverse side of the invoice or packing slip.