

p-DAPK (DKPS308): sc-57540

BACKGROUND

DAP (death associated protein) kinase and ZIP kinase are members of a novel protein kinase family, the members of which have the capacity to mediate apoptosis through their catalytic activities. DAP kinase contains a "death domain" and has been shown to mediate interferon- γ -induced apoptosis. The introduction of DAP kinase into highly metastatic carcinoma clones lacking DAP kinase expression was shown to result in the suppression of metastasis, thus linking suppression of apoptosis to metastasis. ZIP kinase contains a leucine zipper domain, which is necessary for homodimerization and for interaction with other leucine zipper proteins. ZIP kinase dimerizes with ATF-4, an ATF/CREB transcription factor family member that contains a leucine zipper. Overexpression of ZIP kinase was shown to result in morphological changes associated with apoptosis in NIH/3T3 cells. p-DAPK phosphorylates at residue S308.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DAPK1 (human) mapping to 9q21.33; Dapk1 (mouse) mapping to 13 B2.

SOURCE

p-DAPK (DKPS308) is a mouse monoclonal antibody raised against synthetic peptide corresponding to amino acids 303-312 containing Ser 308 phosphorylated DAPK of human origin.

PRODUCT

Each vial contains 100 μ l ascites containing IgG₁ with < 0.1% sodium azide.

APPLICATIONS

p-DAPK (DKPS308) is recommended for detection of Ser 308 phosphorylated DAPK of mouse, rat and human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ l per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:30-1:3000).

Suitable for use as control antibody for DAPK siRNA (h): sc-38976, DAPK siRNA (m): sc-38977, DAPK shRNA Plasmid (h): sc-38976-SH, DAPK shRNA Plasmid (m): sc-38977-SH, DAPK shRNA (h) Lentiviral Particles: sc-38976-V and DAPK shRNA (m) Lentiviral Particles: sc-38977-V.

Molecular Weight of p-DAPK: 100 kDa.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.