SANTA CRUZ BIOTECHNOLOGY, INC.

p-Thr (4D11): sc-65490



BACKGROUND

Protein kinases catalyze the phosphorylation of serine, threonine or tyrosine residues in target substrates, providing a mechanism of control for myriad cellular signaling pathways. Threonine phosphorylation plays a role in the activation of ERK and JNK MAP kinases, which are dually phosphorylated on tyrosine and threonine residues by MEK family kinases. Several families of kinases phosphorylate both serine and threonine residues in target substrates, including the Raf, Rsk, ROCK, PAK, Ak and PKC families of protein kinases. Antibodies to phosphothreonine may be used for the characterization of proteins with phosphorylated threonine residues, and for the elucidation of cellular pathways involving threonine phosphorylation.

REFERENCES

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- Brown, J.L., et al. 1996. Human Ste20 homolog hPAK1 links GTPases to the JNK MAP kinase pathway. Curr. Biol. 6: 598-605.

SOURCE

p-Thr (4D11) is a mouse monoclonal antibody rraised against phosphothreonine.

PRODUCT

Each vial contains 50 μg IgM in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, PEG and sucrose.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

p-Thr (4D11) is recommended for detection of phosphothreonine-containing proteins by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

PROTOCOLS

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



See **p-Thr (H-2): sc-5267** for p-Thr antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647.