

14-3-3 β/ζ (phospho Ser184/186) Polyclonal Antibody

Catalog No: YP0402

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: $14-3-3 \beta/\zeta$

Fields: >>Cell cycle;>>Oocyte meiosis;>>PI3K-Akt signaling pathway;>>Hippo

signaling pathway;>>Hepatitis C;>>Hepatitis B;>>Viral carcinogenesis

Gene Name: YWHAB/YWHAZ

Protein Name: 14-3-3 protein beta/alpha/14-3-3 protein zeta/delta

P63104/P31946

Human Gene Id: 7534/7529

Human Swiss Prot

No:

Mouse Gene ld: 22631/54401

Rat Gene Id: 25578/56011

Rat Swiss Prot No: P63102/P35213

Immunogen: The antiserum was produced against synthesized peptide derived from human

14-3-3 beta/zeta around the phosphorylation site of Ser184/186. AA

range:151-200

Specificity: Phospho-14-3-3 β/ζ (S184/186) Polyclonal Antibody detects endogenous levels

of 14-3-3 β/ζ protein only when phosphorylated at S184/186.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 28kD

Cell Pathway: Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Oocyte

meiosis; Neurotrophin; Pathogenic Escherichia coli infection;

Background: This gene product belongs to the 14-3-3 family of proteins which mediate signal

transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene. [provided by RefSeq, Oct 2008],

Function: caution: Was originally (PubMed:1577711) thought to have phospholipase A2

activity.,function:Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif.

Binding generally results in the modulation of the activity of the binding

partner.,PTM:The delta, brain-specific form differs from the zeta form in being phosphorylated (By similarity). Phosphorylation on Ser-184 by MAPK8; promotes dissociation of BAX and translocation of BAX to mitochondria. Phosphorylation on Ser-58 by PKA; disrupts homodimerization and heterodimerization with YHAE and TP53. This phosphorylation appears to be activated by sphingosine.

Phosphorylation on Thr-232; inhibits binding of RAF1., similarity: Belongs to the

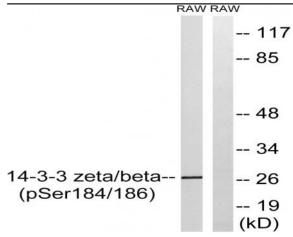
14-3-3 family., subcellular location: Located to

Subcellular Location :

Cytoplasm . Melanosome . Located to stage I to stage IV melanosomes.

Expression : B-cell lymphoma, Bone marrow

Products Images



Western blot analysis of lysates from RAW264.7 cells treated with UV 15', using 14-3-3 beta/zeta (Phospho-Ser184/186) Antibody. The lane on the right is blocked with the phospho peptide.