

14-3-3  $\zeta$  (PTR1370) mouse mAb

<b>Catalog No :</b>	YM4747
<b>Reactivity :</b>	Human;Mouse;Rat;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	14-3-3 $\zeta$
<b>Fields :</b>	>>Cell cycle;>>Oocyte meiosis;>>PI3K-Akt signaling pathway;>>Hippo signaling pathway;>>Hepatitis C;>>Hepatitis B;>>Viral carcinogenesis
<b>Gene Name :</b>	YWHAZ
<b>Protein Name :</b>	14-3-3 protein zeta/delta
<b>Human Gene Id :</b>	7534
<b>Human Swiss Prot No :</b>	P63104
<b>Mouse Gene Id :</b>	22631
<b>Mouse Swiss Prot No :</b>	P63101
<b>Rat Gene Id :</b>	25578
<b>Rat Swiss Prot No :</b>	P63102
<b>Immunogen :</b>	Synthesized peptide derived from human protein. AA range:1-100
<b>Specificity :</b>	This antibody detects endogenous levels of 14-3-3 $\zeta$ protein.
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal,Mouse,IgG1,kappa
<b>Dilution :</b>	WB 1:500-2000.IF 1:100-500.ELISA 1:1000-5000.

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**Purification :** The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.

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

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**Molecularweight :** 28kD

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**Observed Band :** 28kD

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**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],

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**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

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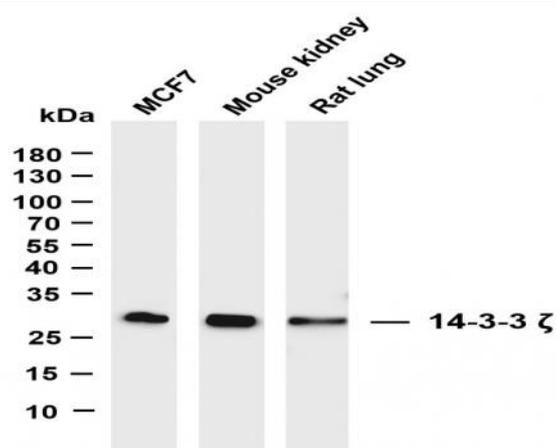
**Subcellular Location :** Cytoplasmic

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**Expression :** B-cell lymphoma,Bone marrow

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## Products Images



Various whole cell lysates were separated by 4%-20% SDS-PAGE, and the membrane was blotted with anti-14-3-3  $\zeta$  (PTR1370) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: Mouse kidney Lane 3: Rat lung Predicted band size: 28kDa Observed band size: 28kDa