



# 14-3-3 ζ (phospho Ser58) Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03585
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	YWHAZ
<b>Protein Name</b>	14-3-3 protein zeta/delta
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human 14-3-3 zeta around the phosphorylation site of Ser58. AA range:24-73
<b>Specificity</b>	Phospho-14-3-3 ζ (S58) Polyclonal Antibody detects endogenous levels of 14-3-3 ζ protein only when phosphorylated at S58.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	YWHAZ; 14-3-3 protein zeta/delta; Protein kinase C inhibitor protein 1; KCIP-1
<b>Observed Band</b>	30kD
<b>Cell Pathway</b>	Cytoplasm . Melanosome . Located to stage I to stage IV melanosomes.
<b>Tissue Specificity</b>	B-cell lymphoma,Bone marrow
<b>Function</b>	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



## 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],

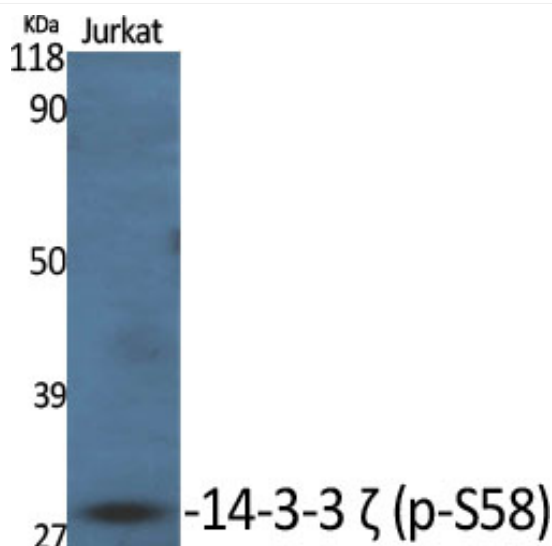
## matters needing attention

Avoid repeated freezing and thawing!

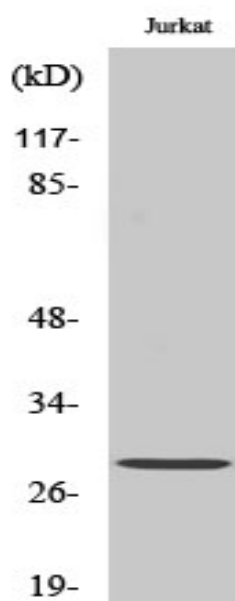
## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

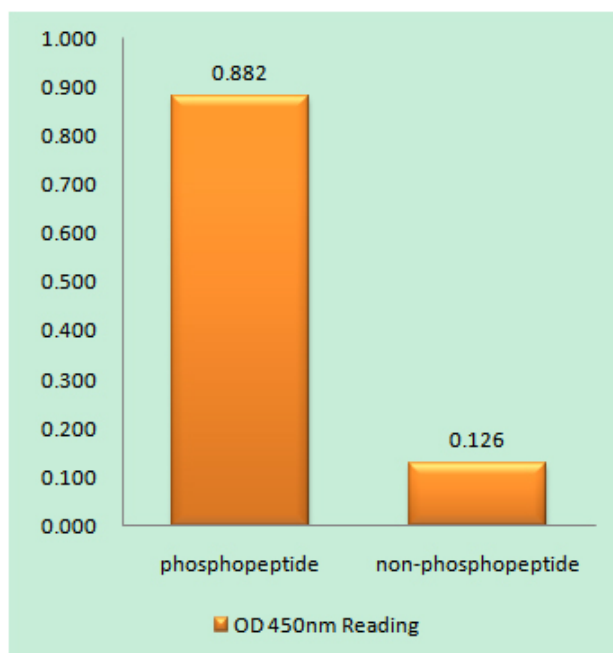
## Products Images



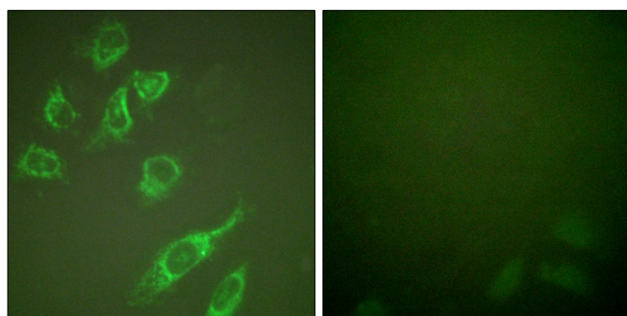
Western Blot analysis of various cells using Phospho-14-3-3  $\zeta$  (S58) Polyclonal Antibody diluted at 1:2000



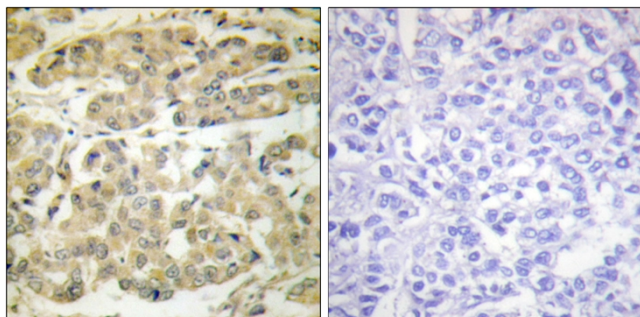
Western Blot analysis of Jurkat cells using Phospho-14-3-3  $\zeta$  (S58) Polyclonal Antibody diluted at 1:2000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using 14-3-3 zeta (Phospho-Ser58) Antibody



Immunofluorescence analysis of HeLa cells treated with PMA 125ng/ml 30', using 14-3-3 zeta (Phospho-Ser58) Antibody. The picture on the right is blocked with the phosphopeptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using 14-3-3 zeta (Phospho-Ser58) Antibody. The picture on the right is blocked with the phosphopeptide.