

AP20192PU-N**Polyclonal Antibody to 14-3-3 protein zeta/delta - Aff - Purified**

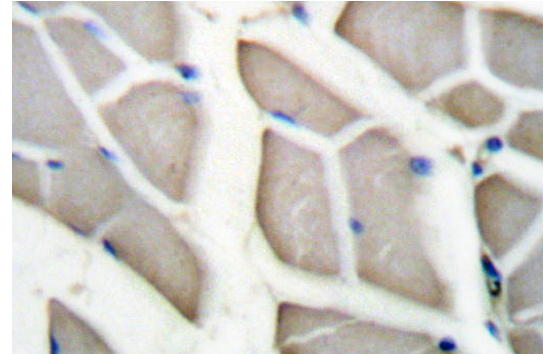
Alternate names:	KCIP-1, Protein kinase C inhibitor protein 1, YWHAZ
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3 β , γ , ϵ , ζ , η , θ and σ . 14-3-3 proteins form dimers that present two binding sites for ligand proteins, thereby bringing together two proteins that may not otherwise associate. These ligands largely share a 14-3-3 consensus binding motif and exhibit serine/threonine phosphorylation. 14-3-3 proteins function in broad regulation of these ligand proteins, by cytoplasmic sequestration, occupation of interaction domains and import/export sequences, prevention of degradation, activation/repression of enzymatic activity and facilitation of protein modification, and thus loss of expression contributes to a vast array of pathogenic cellular activities.
Uniprot ID:	P63104
NCBI:	NP_001129171
GeneID:	7534
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to amino acids 20-70 of Human 14-3-3 ζ .
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Purification: Affinity Chromatography using epitope-specific immunogen Buffer System: Phosphate Buffered Saline (PBS), pH~7.2 Preservatives: 0.05% Sodium Azide
Applications:	Western blot: 1/500-1/1000. Immunoprecipitation: 1/50-1/200. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~ 28 kDa
Specificity:	This antibody detects endogenous levels of 14-3-3 zeta protein. (region surrounding Val52)
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Alsterfjord M, Sehnke PC, Arkell A, Larsson H, Svannelid F, Rosenquist M, et al. Plasma membrane H(+)-ATPase and 14-3-3 isoforms of Arabidopsis leaves: evidence for isoform specificity in the 14-3-3/H(+)-ATPase interaction. *Plant Cell Physiol.* 2004 Sep;45(9):1202-10. PubMed PMID: 15509843.

Pictures:

Immunohistochemistry (IHC) analyzes of 14-3-3 ζ (pVal52) antibody (Cat.-No AP20192PU-N) in paraffin-embedded human breast carcinoma tissue.



Western blot (WB) analysis of 14-3-3 δ antibody (Cat.-No AP20192PU-N) at 1/500 dilution

Lane1: Hela cell lysate

Lane2: Mouse brain tissue lysate

Lane3: Rat kidney tissue lysate

