

## Product datasheet for **AP20192PU-N**

### 14-3-3 zeta (YWHAZ) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, IP, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunoprecipitation:</b> 1/50-1/200. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 20-70 of Human 14-3-3 ζ.
Specificity:	This antibody detects endogenous levels of 14-3-3 zeta protein. (region surrounding Val52)
Formulation:	Phosphate Buffered Saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 28 kDa
Gene Name:	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
Database Link:	<a href="#">Entrez Gene 22631 Mouse</a> <a href="#">Entrez Gene 25578 Rat</a> <a href="#">Entrez Gene 7534 Human P63104</a>



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**Background:**

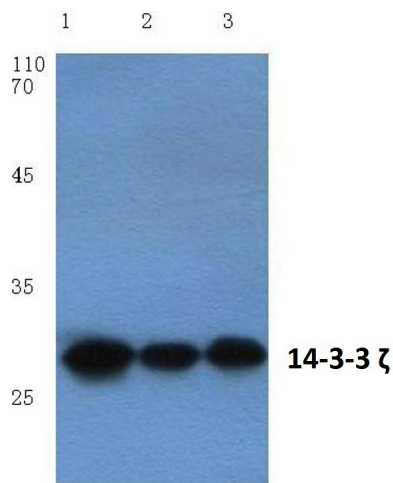
14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3  $\beta$ ,  $\gamma$ ,  $\epsilon$ ,  $\zeta$ ,  $\eta$ ,  $\theta$  and  $\sigma$ . 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.

**Synonyms:**

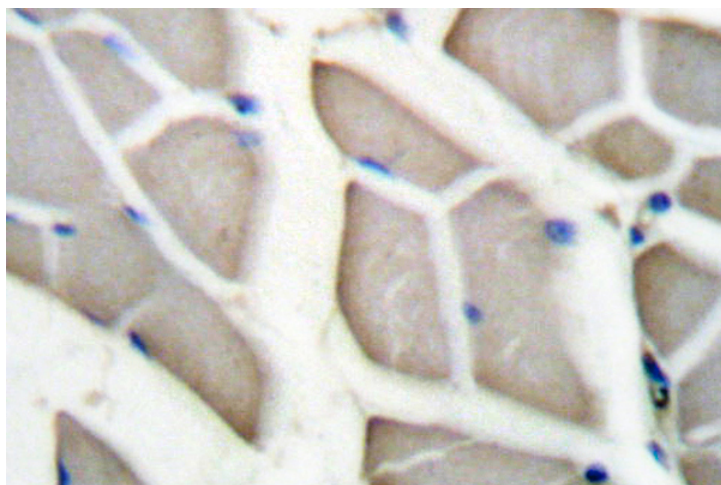
YWHAZ, KCIP-1

**Protein Pathways:**

Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis, Pathogenic Escherichia coli infection

**Product images:**

Western blot (WB) analysis of 14-3-3  $\zeta$  antibody at 1/500 dilution. Lane 1: Hela cell lysate, Lane 2: Mouse brain tissue lysate, Lane 3: Rat kidney tissue lysate.



Immunohistochemistry (IHC) analyzes of 14-3-3 ? (pVal52) antibody in paraffin-embedded human breast carcinoma tissue.