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# Product datasheet for AP20539PU-S

## 14 3 3 gamma (YWHAG) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IF, IHC, WB |
| **Recommended Dilution:** | **Western blot:** 1/500-1/1000.<br>**Immunofluorescence:** 1/50-1/200.<br>**Immunohistochemistry on Paraffin Sections:** 1/50-1/200. |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Synthetic peptide, corresponding to amino acids 50-100 of Human 14-3-3 γ. |
| **Specificity:** | This antibody detects endogenous levels of 14-3-3 gamma protein.<br>(region surrounding Met81) |
| **Formulation:** | Phosphate Buffered Saline (PBS), pH~7.2<br>State: Aff - Purified<br>State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)<br>Preservative: 15 mM 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.<br>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 gamma |
| **Database Link:** | Entrez Gene 22628 MouseEntrez Gene 56010 RatEntrez Gene 7532 Human P61981 |

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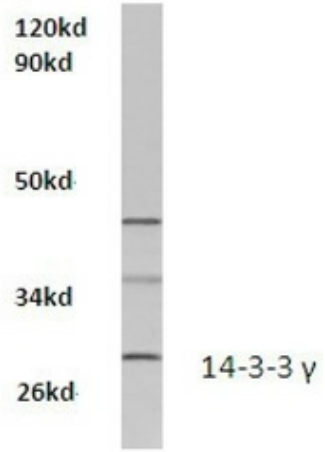
**Background:** 14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3 beta, gamma, epsilon, zeta, eta, theta and sigma. 14-3-3 proteins 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:** YWHAG, KCIP-1

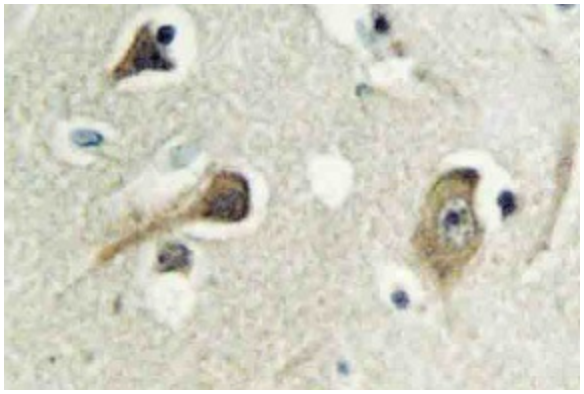
**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis

## Product images:




Western blot analysis of 14-3-3 gamma Antibody in extracts from Hela cells at 1/500 dilution.



Immunohistochemistry (IHC) analyzes of 14-3-3 gamma antibody in paraffin-embedded human brain tissue.

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