

KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1013**Specification****KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P61981
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 28 kDa , observed, 28 kDa KDa
Gene Name	YWHAG
Aliases	YWHAG; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein Gamma; 14-3-3GAMMA; PPP1R170; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Gamma Polypeptide; Protein Phosphatase 1, Regulatory Subunit 170; Protein Kinase C Inhibitor Protein 1; 14-3-3 Protein Gamma; KCIP-1; 14-3-3 Gamma; 14-3-3γ; 14-3-3G; EIEE56; DEE56
Immunogen	A synthesized peptide derived from human 14-3-3 gamma

KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody - Additional Information

Gene ID	7532
Other Names	
14-3-3 protein gamma, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein gamma, N-terminally processed, YWHAG (HGNC:12852)	

KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody - Protein Information**Name** YWHAG ([HGNC:12852](#))**Function**

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:15696159, PubMed:16511572, PubMed:36732624). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:15696159, PubMed:16511572, PubMed:36732624).

[16511572](http://www.uniprot.org/citations/16511572), PubMed: [36732624](http://www.uniprot.org/citations/36732624)). Binding generally results in the modulation of the activity of the binding partner (PubMed: [16511572](http://www.uniprot.org/citations/16511572)). Promotes inactivation of WDR24 component of the GATOR2 complex by binding to phosphorylated WDR24 (PubMed: [36732624](http://www.uniprot.org/citations/36732624)). Participates in the positive regulation of NMDA glutamate receptor activity by promoting the L-glutamate secretion through interaction with BEST1 (PubMed: [29121962](http://www.uniprot.org/citations/29121962)). Reduces keratinocyte intercellular adhesion, via interacting with PKP1 and sequestering it in the cytoplasm, thereby reducing its incorporation into desmosomes (PubMed: [29678907](http://www.uniprot.org/citations/29678907)). Plays a role in mitochondrial protein catabolic process (also named MALM) that promotes the degradation of damaged proteins inside mitochondria (PubMed: [22532927](http://www.uniprot.org/citations/22532927)).

Cellular Location

Cytoplasm, cytosol. Mitochondrion matrix. Note=Translocates to the mitochondrial matrix following induction of MALM (mitochondrial protein catabolic process).

Tissue Location

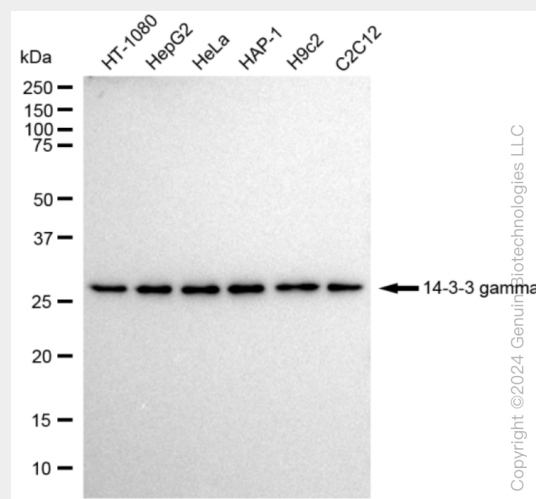
Highly expressed in brain, skeletal muscle, and heart.

KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody - Protocols

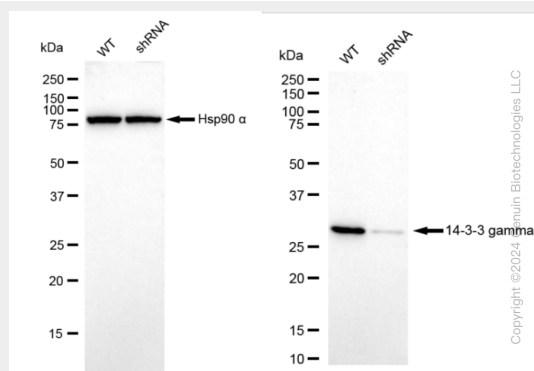
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

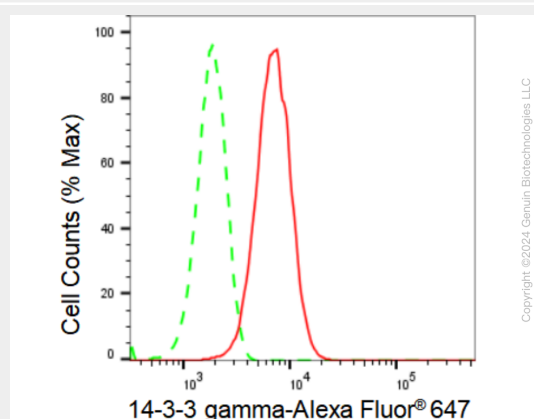
KD-Validated Anti-14-3-3 gamma Rabbit Monoclonal Antibody - Images



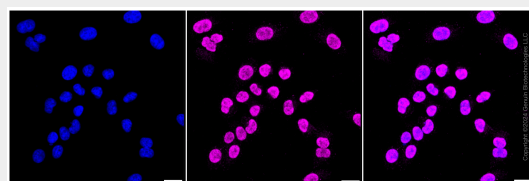
Western blotting analysis using anti-14-3-3 gamma antibody (Cat#AGI1013). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-14-3-3 gamma antibody (Cat#AGI1013, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-14-3-3 gamma antibody (Cat#AGI1013). 14-3-3 gamma expression in wild type (WT) and 14-3-3 gamma shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-14-3-3 gamma antibody (Cat#AGI1013, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of 14-3-3 gamma expression in HepG2 cells using 14-3-3 gamma antibody (Cat#AGI1013, 1:2,000). Green, isotype control; red, 14-3-3 gamma.



Immunocytochemical staining of HepG2 cells with 14-3-3 gamma antibody (Cat#AGI1013, 1:1,000). Nuclei were stained blue with DAPI; 14-3-3 gamma was stained magenta with Alexa Fluor[®] 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.