

14-3-3 gamma Antibody

Rabbit mAb Catalog # AP90852

Product Information

Application Primary Accession Reactivity Clonality Other Names	WB, FC <u>P61981</u> Rat, Human, Mouse Monoclonal 1433G, 143G, KCIP-1, Protein kinase C inhibitor protein-1, YWHAG; gamma polypeptide;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	28303

Additional Information

Dilution Purification Immunogen Description	WB 1:1000~1:2000 FC 1:50 Affinity-chromatography A synthesized peptide derived from human 14-3-3 gamma Induce target protein conformational changes that modify target protein function. Distinct temporal and spatial expression patterns of 14-3-3 isoforms have been observed in development and in acute response to extracellular signals and drugs, suggesting that 14-3-3 isoforms may perform different functions despite their sequence similarities.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	YWHAG (<u>HGNC:12852</u>)
Function	Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed: <u>15696159</u> , PubMed: <u>16511572</u> , PubMed: <u>36732624</u>). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed: <u>15696159</u> , PubMed: <u>16511572</u> , PubMed: <u>36732624</u>). Binding generally results in the modulation of the activity of the binding partner (PubMed: <u>16511572</u>). Promotes inactivation of WDR24 component of the GATOR2 complex by binding to phosphorylated WDR24 (PubMed: <u>36732624</u>). Participates in the positive regulation of NMDA glutamate receptor activity by promoting the L- glutamate secretion through interaction with BEST1 (PubMed: <u>29121962</u>). Reduces keratinocyte intercellular adhesion, via interacting with PKP1 and sequestering it in the cytoplasm, thereby reducing its incorporation into desmosomes (PubMed: <u>29678907</u>). Plays a role in

	mitochondrial protein catabolic process (also named MALM) that promotes the degradation of damaged proteins inside mitochondria (PubMed: <u>22532927</u>).
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.

Images



Western blot analysis of 14-3-3 gamma expression in HeLa cell lysate.

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