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

Rabbit monoclonal antibody
Catalog # AGI1013

Product Information

Application	WB, FC, ICC
Primary Accession	P61981
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 1970
Calculated MW	28303
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

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)

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). Binding generally results in the modulation of the activity of the binding partner (PubMed:16511572). Promotes inactivation of WDR24 component of the GATOR2 complex by binding to phosphorylated WDR24 (PubMed:36732624). Participates in the positive regulation of NMDA glutamate receptor activity by promoting the L- glutamate secretion through interaction with BEST1 (PubMed:29121962). Reduces keratinocyte intercellular adhesion, via interacting with PKP1 and sequestering it in the cytoplasm, thereby reducing its incorporation into desmosomes (PubMed:29678907). Plays a role in

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