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KD-Validated Anti-YWHAG Rabbit Polyclonal Antibody

Rabbit polyclonal antibody
Catalog # AGI2133

Specification

KD-Validated Anti-YWHAG Rabbit Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P61981
Reactivity	**Rat, Human, Mouse**
Clonality	**Polyclonal**
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-YWHAG Rabbit Polyclonal 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-YWHAG Rabbit Polyclonal 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:<a

href="http://www.uniprot.org/citations/16511572" target="_blank">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).

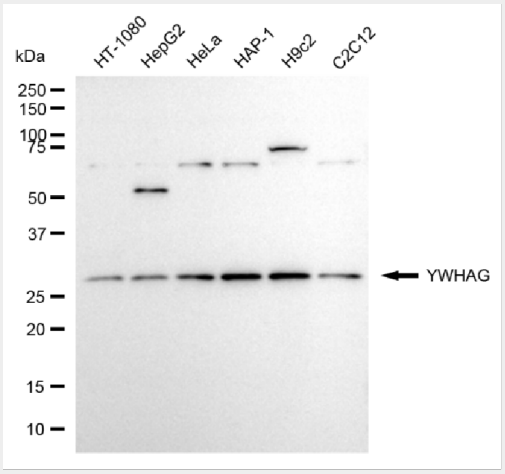
Tissue Location
Highly expressed in brain, skeletal muscle, and heart.

KD-Validated Anti-YWHAG Rabbit Polyclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-YWHAG Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-YWHAG antibody (Cat#AGI2133). Total cell lysates (30 µg)

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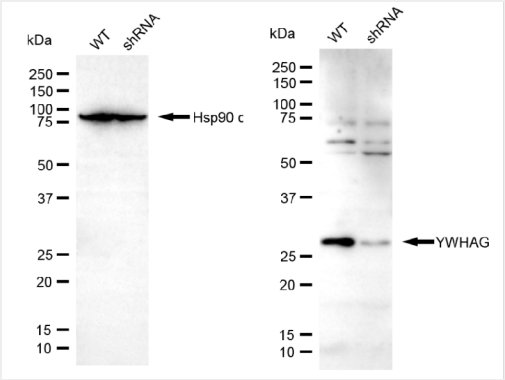
from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-YWHAG antibody (Cat#AGI2133, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-YWHAG antibody (Cat#AGI2133). YWHAG expression in wild-type (WT) and YWHAG shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-YWHAG antibody (Cat#AGI2133, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.