10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

YWHAG Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5242

Specification

YWHAG Antibody (N-term) - Product Information

Application	**IHC-P, FC, WB,E**
Primary Accession	P61981
Other Accession	Q6NRY9, Q6PCG0, Q6PC29, P61983, P61982, Q5F3W6, P68252
Reactivity	**Human, Mouse**
Predicted	**Bovine, Chicken, Rat, Zebrafish, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=28,M=28,Rat=28 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

YWHAG Antibody (N-term) - Additional Information

Gene ID 7532

Antigen Region
63-92

Other Names
YWHAG; 14-3-3 protein gamma; Protein kinase C inhibitor protein 1; 14-3-3 protein gamma, N-terminally processed

Dilution
IHC-P~~1:10~50
FC~~1:10~50
WB~~1:1000

Target/Specificity
This YWHAG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-92 amino acids from the N-terminal region of human YWHAG.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
YWHAG Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

YWHAG Antibody (N-term) - 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.

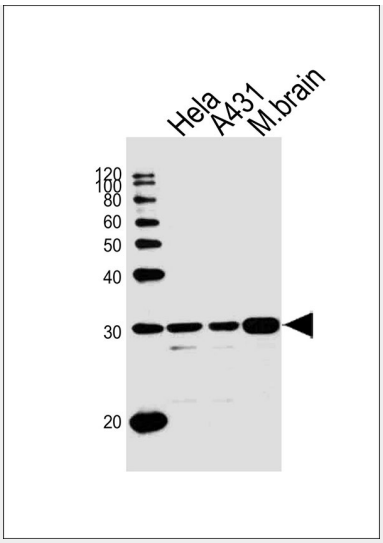
YWHAG Antibody (N-term) - Protocols

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

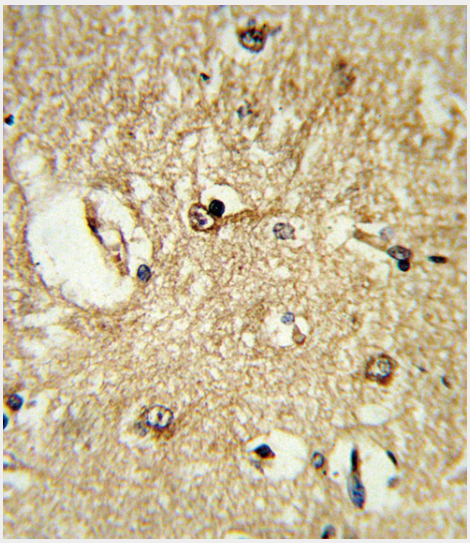
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

YWHAG Antibody (N-term) - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

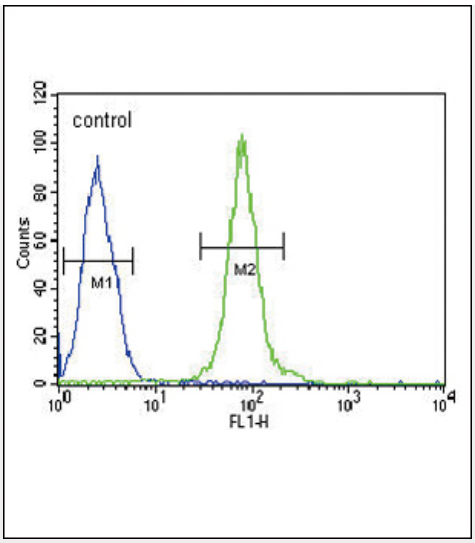


Western blot analysis of lysates from Hela,A431 cell line,mouse brain tissue lysate(from left to right), using YWHAG Antibody (N-term)(Cat. #AW5242). AW5242 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Formalin-fixed and paraffin-embedded human brain tissue reacted with YWHAG Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



YWHAG Antibody (N-term) (Cat. #AW5242) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

YWHAG Antibody (N-term) - Background

YWHAG belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 100% identical to the rat ortholog. It is induced by growth factors in human vascular smooth muscle cells, and is also highly expressed in skeletal and heart muscles, suggesting an important role for this protein in muscle tissue. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways.

YWHAG Antibody (N-term) - References

Jagemann,L.R., et.al., J. Biol. Chem. 283 (25), 17450-17462 (2008)