

Basic Information

Product Name	Anti-14-3-3 GAMMA/YWHAG-Specific Antibody	
Gene Name	YWHAG	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human,mouse,rat	
Tested Application	WB,IHC,FCM,ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human 14-3-3 gamma/YWHAG recombinant protein (Position: D21-K162).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	28KD	
Dilution Ratios	Western blot(WB):	1:500-2000
	Flow Cytometry (FCM):	1-3 µg/1x10 ⁶ cells
	ELISA:	1:100-1000
	Immunohistochemistry in paraffin section (IHC):	1:50-400
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

This gene product 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.

Selected Validation Data

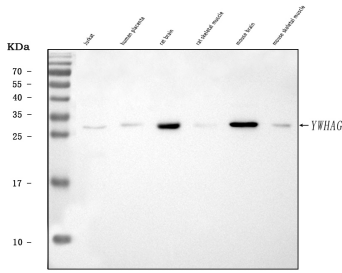


Figure 1. Western blot analysis of anti- YWHAG antibody (A04148-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,
Lane 2: human placenta tissue lysates,
Lane 3: rat brain tissue lysates,
Lane 4: rat skeletal muscle tissue lysates,
Lane 5: mouse brain tissue lysates,
Lane 6: mouse skeletal muscle tissue lysates.

Use rabbit anti- YWHAG 1:1000, probed with a goat anti-rabbit IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for YWHAG at approximately 28KD. The expected band size for YWHAG is at 28KD.

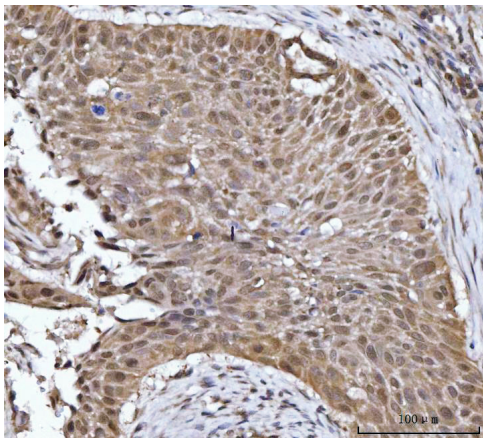


Figure 2. IHC analysis using anti- YWHAG antibody (A04148-2). detected in paraffin-embedded section of human esophageal squamous carcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

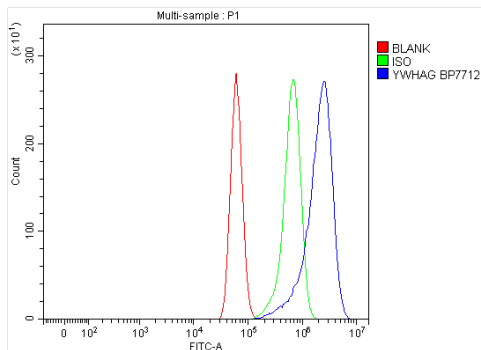


Figure 3. Flow cytometry analysis of U87 cell (1×10^6) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).