

Basic Information

Product Name	Anti-14-3-3 Epsilon/YWHAE Antibody (Clone#3G11G2)	
Gene Name	YWHAE	
Source	Mouse	
Isotype	IgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human YWHAE recombinant protein (Position: M1-Q255).	
concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	29KD	
Dilution Ratios	Western blot(WB):	1:500-2000
	Immunohistochemistry in paraffin section (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow cytometry (FCM):	1-3μg/1x10 ⁶ cells
	(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

14-3-3 protein epsilon is a protein that in humans is encoded by the YWHAE gene. 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 mouse ortholog. It interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. Two transcript variants, one protein-coding and the other non-protein-coding, have been found for this gene.

Selected Validation Data

**Anti-14-3-3 Epsilon/YWHAE Antibody
(Clone#3G11G2)**

Catalog Number: M01687-2

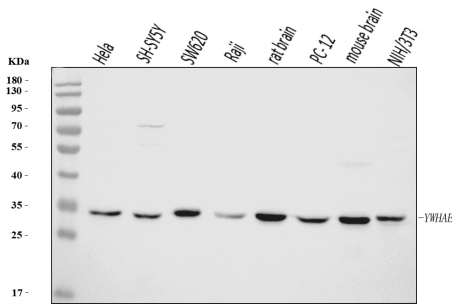


Figure 1. Western blot analysis of anti- YWHAE Antibody (M01687-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

- Lane 1: HeLa whole cell lysates,
- Lane 2: SH-SY5Y whole cell lysates,
- Lane 3: SW620 whole cell lysates,
- Lane 4: Raji whole cell lysates,
- Lane 5: rat brain tissue lysates,
- Lane 6: PC-12 whole cell lysates,
- Lane 7: mouse brain tissue lysates,
- Lane 8: NIH/3T3 whole cell lysates.

Use mouse anti- YWHAE 1:1000, probed with a goat anti- mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for YWHAE at approximately 29KD. The expected band size for YWHAE is at 29KD.