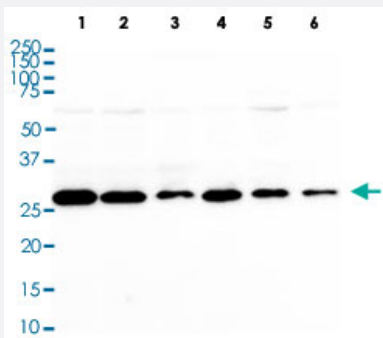


# YWHAQ monoclonal antibody, clone AT1A1

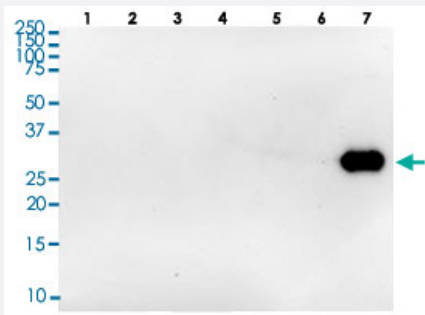
Catalog # MAB2098      Size 100 uL

## Applications



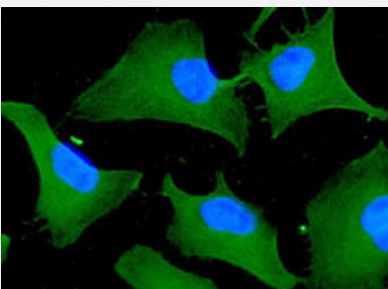
### Western Blot (Cell lysate)

Western blot analysis of Lane 1: MDA-MB-21 cell lysate, Lane 2: HeLa cell lysate, Lane 3: A431 cell lysate, Lane 4: NIH3T3 cell lysate, Lane 5: 293T cell lysate, Lane 6: HepG2 cell lysate.



### Western Blot (Recombinant protein)

Western blot analysis of Lane 1: Recombinant Human YWHAZ, Lane 2: Recombinant Human YWHAB, Lane 3: Recombinant Human YWHA E, Lane 4: Recombinant Human YWHAH, Lane 5: Recombinant Human YWHAG, Lane 6: Recombinant Human SFN, Lane 7: Recombinant Human YWHAQ.



### Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with YWHAQ monoclonal antibody, clone AT1A1 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Specification

### Product Description

Mouse monoclonal antibody raised against partial recombinant YWHAQ.

### Immunogen

Recombinant protein corresponding to amino acids 1-245 of human YWHAQ.

<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Isotype</b>	IgG1, kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein.
<b>Recommend Usage</b>	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
<b>Storage Instruction</b>	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: MDA-MB-21 cell lysate, Lane 2: HeLa cell lysate, Lane 3: A431 cell lysate, Lane 4: NIH3T3 cell lysate, Lane 5: 293T cell lysate, Lane 6: HepG2 cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis of Lane 1: Recombinant Human YWHAZ, Lane 2: Recombinant Human YWHAB, Lane 3: Recombinant Human YWHAE, Lane 4: Recombinant Human YWHAH, Lane 5: Recombinant Human YWHAG, Lane 6: Recombinant Human SFN, Lane 7: Recombinant Human YWHAQ.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with YWHAQ monoclonal antibody, clone AT1A1 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — YWHAQ

Entrez GeneID	<a href="#">10971</a>
Protein Accession#	<a href="#">NP_006817</a>
Gene Name	YWHAQ
Gene Alias	14-3-3, 1C5, HS1
Gene Description	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
Omim ID	<a href="#">609009</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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 99% identical to the mouse and rat orthologs. This gene is upregulated in patients with amyotrophic lateral sclerosis. It contains in its 5' UTR a 6 bp tandem repeat sequence which is polymorphic, however, there is no correlation between the repeat number and the disease. [provided by RefSeq]
Other Designations	14-3-3 protein T-cell 14-3-3 protein tau 14-3-3 protein theta OTTHUMP00000015730 protein tau tyrosine 3/tryptophan 5 -monooxygenase activation protein, theta polypeptide

## Publication Reference

- [Activation-modulated association of 14-3-3 proteins with Cbl in T cells.](#)

Liu YC, Elly C, Yoshida H, Bonnefoy-Berard N, Altman A.

The Journal of Biological Chemistry 1996 Jun; 271(24):14591.

Application: WB-Ce, Human, Jurkat cells

- [Structure of a 14-3-3 protein and implications for coordination of multiple signalling pathways.](#)

Xiao B, Smerdon SJ, Jones DH, Dodson GG, Soneji Y, Aitken A, Gamblin SJ.

Nature 1995 Jul; 376(6536):188.

Application: WB-Ce, WB-Tr, Human, Mammalian cells

## Pathway

- [Cell cycle](#)
- [Neurotrophin signaling pathway](#)

- [Pathogenic Escherichia coli infection - EHEC](#)

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)