

**Product Name: KD-Validated 14-3-3 Zeta Mouse Monoclonal Antibody****Catalog #: KVA01921**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB,FCM                                                                      |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG2b                                                                 |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:400-1:2,000; FC 1:200-1:2,000 |
| <b>Molecular Weight</b> | Calculated MW: 27.7kDa             |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | YWHAZ<br>YWHAZ; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein Zeta; KCIP-1; 14-3-3-Zeta; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Delta Polypeptide; Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Zeta Polypeptide; 14-3-3 Protein Zeta/Delta; 14-3-3                                               |
| <b>Alternative Names</b> | Delta; 14-3-3 Zeta; YWHAD; Tyrosine 3/Tryptophan 5 -Monooxygenase Activation Protein, Zeta Polypeptide; 14-3-3 Protein/Cytosolic Phospholipase A2; Protein Kinase C Inhibitor Protein-1; Protein Kinase C Inhibitor Protein 1; Epididymis Secretory Protein Li 93; Epididymis Secretory Protein Li 3; Epididymis Luminal Protein 4; Phospholipase A2; HEL-S-93; HEL-S-3; POPCHAS; HEL4 |
| <b>Gene ID</b>           | 7534.0                                                                                                                                                                                                                                                                                                                                                                                 |

**SwissProt ID** P63104  
**Immunogen** Recombinant protein of human YWHAZ

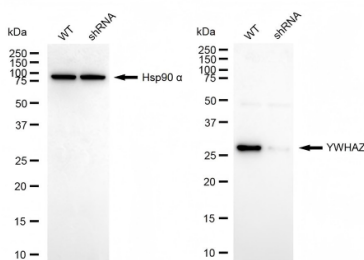
## Background

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, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene. [provided by RefSeq, Oct 2008]

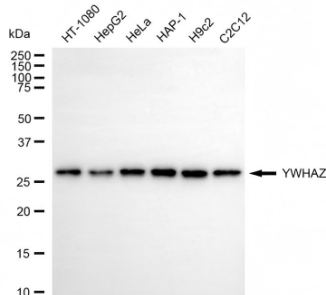
## Research Area

Cell Biology, Neuroscience, Tags & Cell Markers, Signal Transduction, Cell Biology

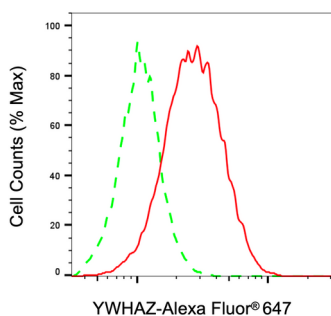
## Image Data



Western blotting analysis using YWHAZ antibody (KVA01921). YWHAZ expression in wild-type (WT) and YWHAZ shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with YWHAZ antibody (KVA01921, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using YWHAZ antibody (KVA01921). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with YWHAZ antibody (KVA01921, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of YWHAZ expression in HeLa cells using YWHAZ antibody (KVA01921, 1:2,000). Green, isotype control; red, YWHAZ.