www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

# Anti-14-3-3 (Ser58) Antibody

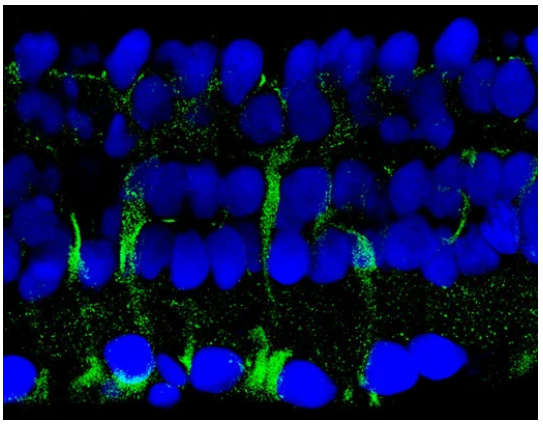
phosphosolutions ANTIBODIES THAT WORK  Pooled Serum

## Product Details

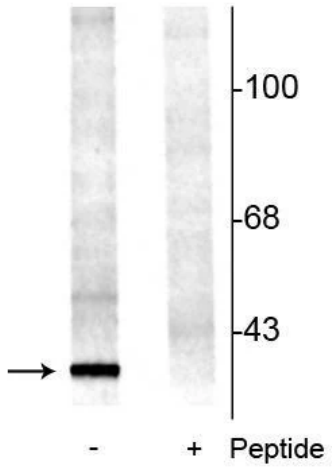
| | |
|---|---|
| **Available Variants** | 100 µL (SKU:p1433-58)<br>25 µL (SKU:p1433-58t) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | YWHAB |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified from Pooled Serum |
| **Physical State** | Liquid |
| **Buffer** | 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol. |
| **Production Notes** | Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns. |
| **Applications** | ELISA, IHC, WB |
| **Dilution Ranges** | WB: 1:1000<br>WB Brain: 1:1000<br>IHC: 1:100-1:500 |
| **Species Reactivity** | Human, Mouse, Rat, Salamander |
| **Immunogen** | Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser58 of rat 14-3-3, conjugated to keyhole limpet hemocyanin (KLH). |
| **Specificity** | Specific for endogenous levels of the ~29 kDa 14-3-3 protein phosphorylated at Ser58. Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide. |
| **Molecular Weight** | 29 kDa |
| **Quality Control** | Western blots performed on each lot. |

| | |
|---|---|
| **Storage** | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. |
| **Antibody Registry ID** | AB_2492027 |
| **UniProt ID** | P35213<br>UniProt Summary: Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2. Negative regulator of signaling cascades that mediate activation of MAP kinases via AKAP13. {ECO:0000269\|PubMed:17717073, ECO:0000269\|PubMed:19592491, ECO:0000269\|PubMed:21224381}. |
| **Shipping** | Blue Ice |
| **Expiration** | After date of receipt, stable for at least 1 year at -20°C. |
| **Usage Statement** | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| **Expected Reactivity** | Bovine, Canine, Chicken, Non-Human Primate, Sheep, Xenopus, Zebrafish |
| **Post Translational Modification Type** | Phosphorylated |
| **Post Translational Modification Residue** | Ser58 |
| **NCBI Gene ID** | 56011 |

## Product Images



Immunostaining of salamander retina showing labeling of 14-3-3 protein when phosphorylated at Ser58 (Cat. p1433-58, green 1:500) in Müller glial cells. The blue is staining DNA. Photo courtesy of Alex Vila, University of Texas at Houston.




Western blot of rat brainstem lysate showing specific immunolabeling of the ~29 kDa 14-3-3 protein phosphorylated at Ser58 (-). The immunolabeling is blocked by the phosphopeptide used as the antigen (+) but not by the corresponding non-phosphopeptide (not shown).