

## Anti-Actin (Tyr-53), Phosphospecific Antibody



### Product Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 100 µL (SKU:AP1671)                                                                                                                                                                                                                                                                                                                                                                 |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Name          | ACTB                                                                                                                                                                                                                                                                                                                                                                                |
| Host Species       | Rabbit                                                                                                                                                                                                                                                                                                                                                                              |
| Format             | Antigen Affinity Purified                                                                                                                                                                                                                                                                                                                                                           |
| Physical State     | Liquid                                                                                                                                                                                                                                                                                                                                                                              |
| Buffer             | PBS + 1 mg/ml BSA, 0.05% NaN <sub>3</sub> and 50% glycerol                                                                                                                                                                                                                                                                                                                          |
| Applications       | ELISA, ICC, WB                                                                                                                                                                                                                                                                                                                                                                      |
| Dilution Ranges    | WB: 1:1000<br>ICC: 1:50                                                                                                                                                                                                                                                                                                                                                             |
| Species Reactivity | Chicken, Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen          | Phospho-Actin (Tyr-53) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 53 of human β actin. This sequence is identical to similar regions in all four α actins, as well as in γ actin, and is well conserved in actins from most eukaryotic species.                                                                                        |
| Specificity        | This antibody detects a 42 kDa* protein corresponding to the molecular mass of Actin on SDS-PAGE immunoblots of pervanadate treated human C2C12 and SYF cSrc transformed cells, but not in control cells. In addition, this antibody either detects actin cleavage products at 36 and 20 kDa, or cross-reacts with unidentified proteins at these molecular weights in C2C12 cells. |
| Molecular Weight   | 42                                                                                                                                                                                                                                                                                                                                                                                  |
| 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.

**UniProt ID** P60709

**Country of Origin** United States

**Shipping** Blue Ice

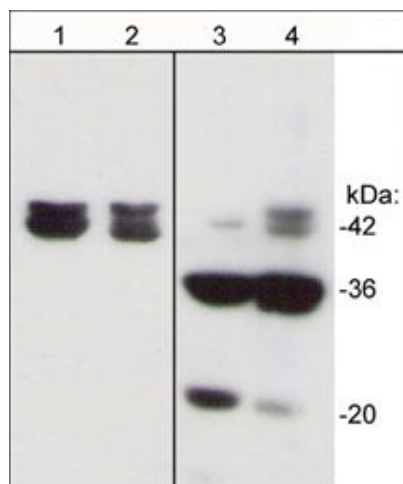
**Expiration** After date of receipt, stable for at least 1 year at -20°C.

**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.

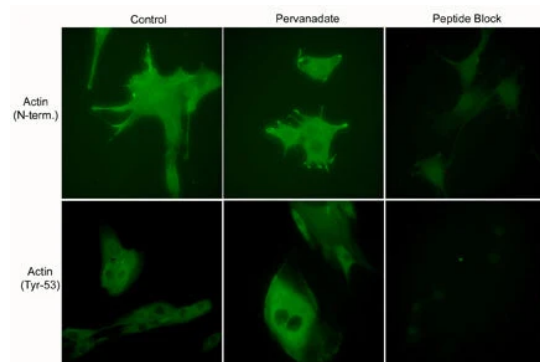
**Post Translational Modification Type** Phosphorylated

**Post Translational Modification Residue** Tyr-53

## Product Images



Western blot analysis of mouse C2C12 cells untreated (lanes 1 & 3), or treated with pervanadate (1 mM) for 30 min (lanes 2 & 4). The blot was probed with anti-Actin (N-terminal) antibody (lanes 1 & 2) or anti-Actin (Tyr-53) antibody (lanes 3 & 4).



Immunocytochemical labeling using anti-Actin (N-terminal) and anti-Actin (Tyr-53) polyclonal antibodies in C2C12 cells control (left) or treated with pervanadate (1 mM) for 30 min (middle). The cells were fixed in paraformaldehyde and permeabilized in acetone. Both antibodies were used in the presence of blocking peptide: Actin (N-terminal) peptide (AX1655) or phospho-Actin (Tyr-53) peptide (AX1675), respectively (right).

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**Product Page URL:** [www.antibodiesinc.com/products/anti-actin-tyr-53-phosphospecific-antibody-ap1671](https://www.antibodiesinc.com/products/anti-actin-tyr-53-phosphospecific-antibody-ap1671)



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