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PRODUCT DATASHEET

# Anti-RhoA (Ser-188), Phosphospecific Antibody

phosphosolutions ANTIBODIES THAT WORK

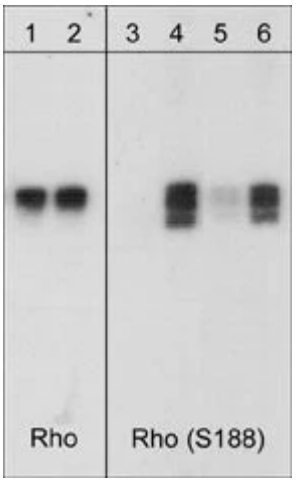
## Product Details

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| **Available Variants** | 100 µL (SKU:RP1361) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | RHOA |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified |
| **Physical State** | Liquid |
| **Buffer** | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| **Applications** | ELISA, WB |
| **Dilution Ranges** | WB: 1:1000 |
| **Species Reactivity** | Human, Mouse, Rat |
| **Immunogen** | Phospho-RhoA (Ser-188) synthetic peptide (coupled to KLH) corresponding to amino acid residues around serine 188 of human RhoA. This peptide sequence is highly conserved in rat, mouse, and chicken RhoA, but is not found in RhoB or RhoC proteins. |
| **Specificity** | The antibody detects a RhoA GST fusion protein when phosphorylated with PKA, but does not detect the unphosphorylated recombinant protein. |
| **Molecular Weight** | 22 |
| **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** | P06749<br>UniProt Summary: Function Small GTPase which cycles between an active |

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| | GTP-bound and an inactive GDP-bound state. Mainly associated with cytoskeleton organization, in active state binds to a variety of effector proteins to regulate cellular responses such as cytoskeletal dynamics, cell migration and cell cycle.<br>Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers.<br>Involved in a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis.<br>Plays an essential role in cleavage furrow formation. Required for the apical junction formation of keratinocyte cell-cell adhesion.<br>Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly.<br>The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization.<br>Involved in the reorientation of endothelial cells and their actin stress fibers in response to cellular mechantransduction-mediated activation by ARHGEF40.<br>Regulates KCNA2 potassium channel activity by reducing its location at the cell surface in response to CHRM1 activation; promotes KCNA2 endocytosis.<br>Acts as an allosteric activator of guanine nucleotide exchange factor ECT2 by binding in its activated GTP-bound form to the PH domain of ECT2 which stimulates the release of PH inhibition and promotes the binding of substrate RHOA to the ECT2 catalytic center.<br>May be an activator of PLCE1.<br>In neurons, involved in the inhibition of the initial spine growth. Upon activation by CaMKII, modulates dendritic spine structural plasticity by relaying CaMKII transient activation to synapse-specific, long-term signaling.<br>Acts as a regulator of platelet alpha-granule release during activation and aggregation of platelets.<br>When activated by DAAM1 may signal centrosome maturation and chromosomal segregation during cell division. May also be involved in contractile ring formation during cytokinesis |
| **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 |

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| **Post Translational Modification Residue** | Ser-188 |
| **NCBI Gene ID** | 387 |

## Product Images




Western blot analysis of human RhoA GST fusion recombinant unphosphorylated (lanes 1 & 3) or phosphorylated with PKA (lanes 2, 4, 5 & 6). The blots were probed with anti-Rho (RP1501; lanes 1 & 2) or with anti-RhoA (Ser-188) (RP1361; lanes 3-6). The latter antibody was used in the presence of no peptide (lanes 3 & 4), phospho-Rho (Ser-188) peptide (lane 5), or a non-specific phosphoserine peptide (lane 6).



Created on 30. October 2026 | All information without guarantee