10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Catalog # AN1938

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P06749 |
| **Host** | Rabbit |
| **Clonality** | Rabbit Polyclonal |
| **Isotype** | IgG |

## Additional Information

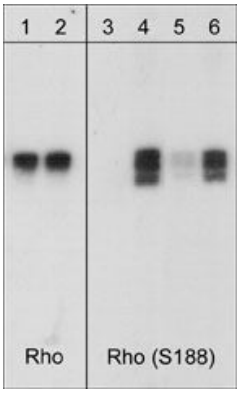
| | |
|---|---|
| **Dilution** | WB~~1:1000 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Anti-RhoA (Ser-188), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |
| **Shipping** | Blue Ice |

## Background

Rho (A, B, & C) proteins are members of the Ras superfamily of GTPases. These proteins regulate a variety of cellular functions, including cell cycle progression, cytoskeletal rearrangement, and gene expression. Rho cycles between the active GTP-bound form and an inactive GDP-bound form. Interconversion between these forms is controlled by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). The Rho proteins RhoA, RhoB, and RhoC are highly homologous and contain the consensus amino acid sequences necessary for GDP/GTP-binding and GTPase activity. Post-translational regulation of Rho activity has been shown specifically for RhoA. This Rho protein is phosphorylated in vitro on serine 188 by cAMP- and cGMP-dependent kinases (PKA and PKG). Ser-188 phosphorylation enhances RhoGDI binding and inhibits RhoA-mediated stress fiber formation. Thus, Ser-188 is an important site for negative regulation of RhoA activity.

## 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) (AN1938; 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).




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.