



# Rho G Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Catalog No</b>                  | YP-mAb-16241                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>                   | RHOG                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human RHOG. AA range:97-146                                                                                                                                                                                                                                                                                                                                  |
| <b>Specificity</b>                 | Rho G Monoclonal Antibody detects endogenous levels of Rho G protein.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>                    | ARHG;Ras homolog family member G;Rho G;Rho related GTP binding protein RhoG precursor;Rho-related GTP-binding protein RhoG;RHOG;RHOG_HUMAN                                                                                                                                                                                                                                                                                       |
| <b>Observed Band</b>               | 23kD                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated Molecular Weight</b> | 23kD                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>                | Cell membrane ; Lipid-anchor ; Cytoplasmic side .                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Tissue Specificity</b>          | Brain,PCR rescued clones,                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Function</b>                    | function:Required for the formation of membrane ruffles during macropinocytosis. Required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB and SGEF, which induces cytoskeleton rearrangements and promotes bacterial entry.,similarity:Belongs to the small GTPase superfamily. Rho family.,subunit:Interacts with SGEF., |
| <b>Background</b>                  | This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment,                                                                                                                         |



and motility. The encoded protein facilitates translocation of a functional guanine nucleotide exchange factor (GEF) complex from the cytoplasm to the plasma membrane where ras-related C3 botulinum toxin substrate 1 is activated to promote lamellipodium formation and cell migration. Two related pseudogene have been identified on chromosomes 20 and X. [provided by RefSeq, Aug 2011]

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

