



# PDZ-RhoGEF Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-16186                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>                   | ARHGEF11                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human ARHGEF11. AA range:198-247                                                                                                                                                                                                                                                                                                                                                    |
| <b>Specificity</b>                 | PDZ-RhoGEF Monoclonal Antibody detects endogenous levels of PDZ-RhoGEF 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>                    | ARHGB_HUMAN;ARHGEF 11;ARHGEF11;DKFZp667F1223;Glutamate transporter EAAT4 associated protein 48;GTRAP 48;GTRAP48;KIAA38; OTTHUMP38716;OTTHUMP38717;PDZ RHOGEF;PDZ-RhoGEF;Rho guanine exchange factor (GEF) 11;Rho guanine nucleotide exchange factor (GEF) 11; Rho guanine nucleotide exchange factor 11;RhoA specific guanine nucleotide exchange factor;RhoGEF glutamate transport modulator;KIAA0380                                                  |
| <b>Observed Band</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated Molecular Weight</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>                | Cytoplasm . Membrane . Translocated to the membrane upon stimulation.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Specificity</b>          | Ubiquitously expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b>                    | domain:The poly-Pro region is essential for plasma membrane localization upon stimulation.,function:May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13). Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 PDZ (DHR) domain., |



similarity:Contains 1 PH domain.,similarity:Contains 1 RGSL (RGS-like) domain.,  
subcellular location:Translocated to the membrane upon stimulation.,  
subunit:Interacts with GNA12 and GNA13 through the RGS domain. Interacts  
with RHOA, PLXNB1 and PLXNB2. Interacts with SLC1A6.,tissue  
specificity:Ubiquitously expressed.,

#### Background

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. A similar protein in rat interacts with glutamate transporter EAAT4 and modulates its glutamate transport activity. Expression of the rat protein induces the reorganization of the actin cytoskeleton and its overexpression induces the formation of membrane ruffling and filopodia. Two alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008],

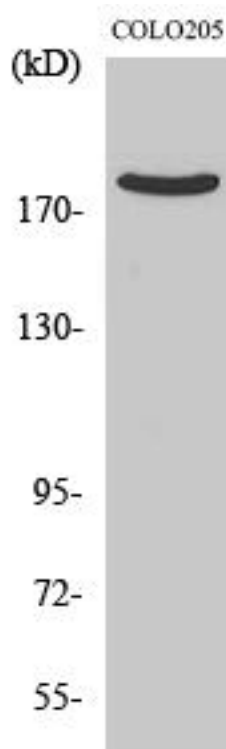
#### matters needing attention

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



Western Blot analysis of various cells using PDZ-RhoGEF Monoclonal Antibody