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|--------------------------|------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | LARG Rabbit Polyclonal Antibody                                                                      |
| <b>Cat number:</b>       | ABN13217                                                                                             |
| <b>Conjugate:</b>        | Unconjugated                                                                                         |
| <b>Size:</b>             | 100µL                                                                                                |
| <b>Clone:</b>            | Polyclonal                                                                                           |
| <b>Concentration:</b>    | 1mg/ml                                                                                               |
| <b>Host:</b>             | Rabbit                                                                                               |
| <b>Isotype:</b>          | IgG                                                                                                  |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human ARHGEF12. AA range:449-498 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                      |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:50-1:300                                                                       |
| <b>Molecular Weight:</b> | 173kDa                                                                                               |
| <b>Purification:</b>     | Affinity purification                                                                                |
| <b>Form:</b>             | Liquid                                                                                               |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                   |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.         |

**Background:**

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli working through G protein-coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. This protein has been observed to form a myeloid/lymphoid fusion partner in acute myeloid leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014],disease:A chromosomal aberration involving ARHGEF12 may be a cause of acute leukemia. Translocation t(11;11)(q23;23) with MLL.,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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A sequence.,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, probably through the RGS-like domain. Interacts with RHOA, PLXNB1 and PLXNB2. Interacts through its PDZ domain with IGF1R beta subunit.,tissue specificity:Ubiquitously expressed. Isoform 2 is found in jejunum and testis.,