

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Cat. No:</b>          | ABN19277                                                      |
| <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>        | Synthesized peptide derived from part region of human protein |
| <b>Reactivity:</b>       | Human,Mouse                                                   |
| <b>Applications:</b>     | IHC 1:50-1:300,ICC/IF 1:50-1:200                              |
| <b>Molecular Weight:</b> | 340kDa                                                        |
| <b>Purification:</b>     | Affinity purification                                         |

**Background:**

This gene encodes a large protein that functions as a GDP to GTP exchange factor. This protein promotes the reorganization of the actin cytoskeleton, thereby playing a role in cell migration and growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:The N-terminal DBL/GEF domain specifically catalyzes nucleotide exchange for RAC1, leading to the activation of Jun kinase and the production of membrane ruffles. The second DBL/GEF domain is an exchange factor for rhoa and induces the formation of stress fibers.,function:Promotes the exchange of GDP by GTP. Together with leukocyte antigen-related (LAR) protein, it could play a role in coordinating cell-matrix and cytoskeletal rearrangements necessary for cell migration and cell growth.,PTM:Phosphorylated on serine residue(s).,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 CRAL-TRIO domain.,similarity:Contains 1 Ig-like C2-type (immunoglobulin-like) domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 DH (DBL-homology) domains.,similarity:Contains 2 PH domains.,similarity:Contains 2 SH3 domains.,similarity:Contains 4 spectrin repeats.,subunit:Interacts to form a complex with leukocyte antigen related protein.,tissue specificity:Highly expressed in heart, skeletal muscle, brain, pancreas, placenta, liver, kidney and lung.,

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| <b>Form:</b>    | Liquid                                                                                       |
| <b>Buffer:</b>  | Liquid in PBS containing 50% glycerol, 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. |

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