



## Rabbit Anti-phospho-RhoGDI (Ser174) antibody

SL19875R

|                               |  |
|-------------------------------|--|
| <b>Product Name:</b>          | phospho-RhoGDI (Ser174)  |
| <b>Chinese Name:</b>          | 磷酸化Tumour转移抑制基因GDIA1抗体   |
| <b>Alias:</b>                 | RhoGDI (phospho S174); p-RhoGDI (phospho S174); ARHGDIA; fa96g11; GDIA 1; GDIA1; GDIR1_HUMAN; MGC117248; NPHS8; Rho GDI 1; Rho GDI alpha; Rho GDI; Rho GDP dissociation inhibitor (GDI) alpha; Rho GDP dissociation inhibitor 1; Rho GDP dissociation inhibitor alpha; Rho GDP-dissociation inhibitor 1; Rho-GDI alpha; RhoGDI 1; RhoGDI alpha; RHOGDI; RhoGDI1; wu:fa96g11; zgc:55554; zgc:77681. |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Cow,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight:</b>      | 23kDa  |
| <b>Cellular localization:</b> | cytoplasmic  |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthesised phosphopeptide derived from human RhoGDI around the phosphorylation site of Ser174:RG(p-S)YS  |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |

This gene encodes a protein that plays a key role in the regulation of signaling through Rho GTPases. The encoded protein inhibits the disassociation of Rho family members from GDP (guanine diphosphate), thereby maintaining these factors in an inactive state. Activity of this protein is important in a variety of cellular processes, and expression of this gene may be altered in tumors. Mutations in this gene have been found in individuals with nephrotic syndrome, type 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

**Function:**

Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them.

**Subunit:**

Monomer. Interacts with FER. Interacts with PLXNB3 (By similarity). Forms a heterodimer with RAC1. Interacts with RHOA, the affinity is increased by three orders of magnitude when RHOA is prenylated. Interacts with PSMD10; the interaction increases ARHGDI1 association with RHOA, leading to ARHGDI1-mediated inactivation of RHOA and ROCK and prolonged AKT activation. Interacts with RHOC and CDC42.

**Subcellular Location:**

Cytoplasm.

**DISEASE:**

The disease is caused by mutations affecting the gene represented in this entry.  
Disease description: A form of nephrotic syndrome, a renal disease clinically characterized by progressive renal failure, severe proteinuria, hypoalbuminemia, hyperlipidemia and edema. Kidney biopsies show diffuse mesangial sclerosis, with small glomeruli, hypercellularity, increased extracellular matrix, and contracted/collapsed glomerular tufts surrounded by immature or abnormal podocytes.

**Similarity:**

Belongs to the Rho GDI family.

**SWISS:**

P52565

**Gene ID:**

396

**Database links:**

[Entrez Gene: 396](#) Human

[Entrez Gene: 192662](#) Mouse

**Product Detail:**

[Entrez Gene: 360678](#) Rat

[Omim: 601925](#) Human

[SwissProt: P52565](#) Human

[SwissProt: Q99PT1](#) Mouse

[SwissProt: Q5XI73](#) Rat

[Unigene: 159161](#) Human

[Unigene: 30016](#) Mouse

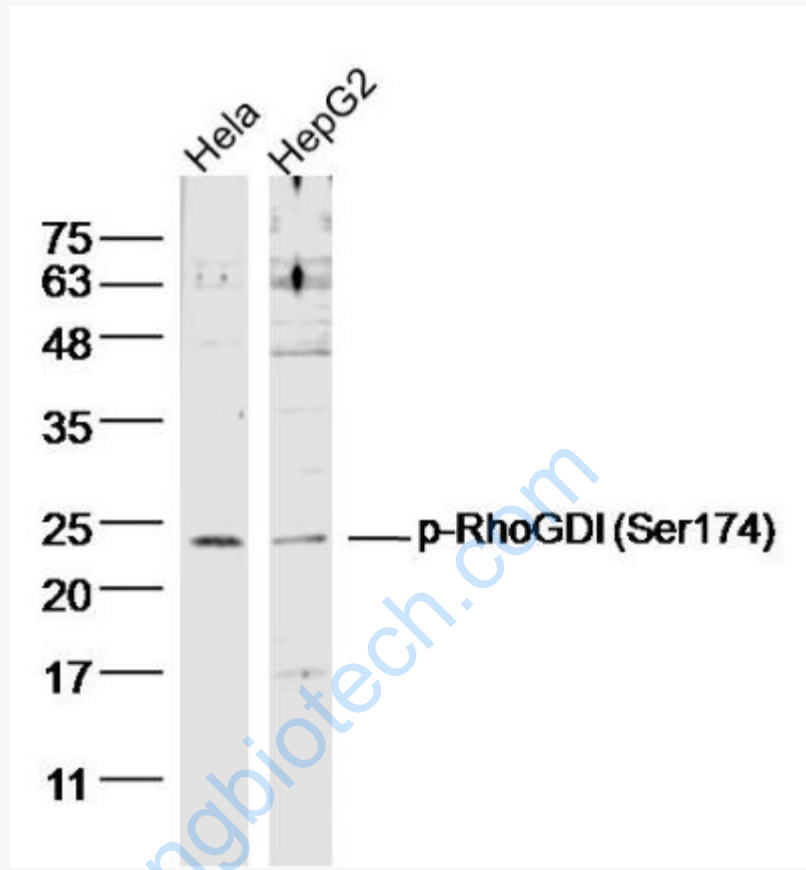
[Unigene: 474783](#) Mouse

[Unigene: 1801](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Hela Cell (Human) Lysate at 40 ug

HepG2 Cell (Human) Lysate at 40 ug

Primary: Anti- phospho-RhoGDI (Ser174) (SL19875R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 23 kD

Observed band size: 23 kD