

## Recombinant Human RGS1 cell lysate

Cat. No. RGS1-1499HCL    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description    | <p>This gene encodes a member of the regulator of G-protein signalling family. This protein is located on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signalling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal.</p> |
| Size           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Buffer | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applications   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### GENE INFORMATION

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| Gene Name       | RGS1 regulator of G-protein signaling 1 [ Homo sapiens ] |
| Official Symbol | RGS1                                                     |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | RGS1; regulator of G-protein signaling 1; IER1, regulator of G protein signalling 1; 1R20; BL34; IR20; early response protein 1R20; B-cell activation protein BL34; regulator of G-protein signalling 1; immediate-early response 1, B-cell specific; IER1;                                                                                                                                                                           |
| <b>Gene ID</b>             | <a href="#">5996</a>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_002922</a>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | <a href="#">NP_002913</a>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | <a href="#">600323</a>                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | <a href="#">Q08116</a>                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 1q31                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | CXCR4-mediated signaling events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem; |
| <b>Function</b>            | GTPase activator activity; calmodulin binding;                                                                                                                                                                                                                                                                                                                                                                                        |