

## Recombinant Human RGS14 cell lysate

**Cat. No.** RGS14-1502HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>    | <p>This gene encodes a member of the regulator of G-protein signaling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases 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. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.</p> |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### GENE INFORMATION

|                  |                                                            |
|------------------|------------------------------------------------------------|
| <b>Gene Name</b> | RGS14 regulator of G-protein signaling 14 [ Homo sapiens ] |
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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | RGS14                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | RGS14; regulator of G-protein signaling 14; regulator of G protein signalling 14; regulator of G-protein signalling 14;                                                                                                                                                                                                                                                 |
| <b>Gene ID</b>             | <a href="#">10636</a>                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | <a href="#">NM_006480</a>                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | <a href="#">NP_006471</a>                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | <a href="#">602513</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | <a href="#">O43566</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 5q35.3                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | 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>            | GDP-dissociation inhibitor activity; GTPase activating protein binding; GTPase activator activity; GTPase activator activity; microtubule binding; protein kinase binding; receptor signaling complex scaffold activity; receptor signaling protein activity;                                                                                                           |