

Recombinant Human RGS14 cell lysate

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

SPECIFICATION

Product Overview

Species	Human
Description	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.
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	RGS14 regulator of G-protein signaling 14 [Homo sapiens]
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Official Symbol	RGS14
Synonyms	RGS14; regulator of G-protein signaling 14; regulator of G protein signalling 14; regulator of G-protein signalling 14;
Gene ID	10636
mRNA Refseq	NM_006480
Protein Refseq	NP_006471
MIM	602513
UniProt ID	O43566
Chromosome Location	5q35.3
Pathway	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;
Function	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;