

Recombinant Human GNAI2 293 Cell Lysate

Cat. No. GNAI2-5870HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 (GNAI2), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

GNAI2 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 [Homo sapiens]

Official Symbol

GNAI2

Synonyms

GNAI2; guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2; GNAI2B; guanine nucleotide-binding protein G(i) subunit alpha-2; GIP; GTP binding regulatory protein Gi alpha 2 chain; adenylate cyclase-inhibiting G alpha protein; GTP-binding regulatory protein Gi alpha-2 chain; guanine nucleotide-binding protein G(i), alpha-2 subunit; H_LUCA15.1; H_LUCA16.1;

Gene ID

2771

mRNA Refseq

NM_001166425

Protein Refseq

NP_001159897

MIM

139360

UniProt ID

P04899

Chromosome Location

3p21.31

Pathway

ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation

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of GABAB receptors, organism-specific biosystem; Adenylate cyclase inhibitory pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; CXCR3-mediated signaling events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;

Function

G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding; GTPase activity; GTPase activity; guanyl nucleotide binding; guanyl-nucleotide exchange factor activity; metal ion binding; nucleotide binding; phosphatidylinositol phospholipase C activity; protein binding; signal transducer activity;