

Recombinant Human GNAO1 293 Cell Lysate

Cat. No. GNAO1-5868HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O (GNAO1), 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

GNAO1 guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [Homo sapiens]

Official Symbol

GNAO1

Synonyms

GNAO1; guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O; guanine nucleotide-binding protein G(o) subunit alpha; G ALPHA o; guanine nucleotide binding protein, alpha activating polypeptide O; GNAO; G-ALPHA-o; DKFZp686O0962;

Gene ID

2775

mRNA Refseq

NM_020988

Protein Refseq

NP_066268

MIM

139311

UniProt ID

P09471

**Chromosome
Location**

16q13

Pathway

Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease

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(American trypanosomiasis), conserved biosystem; Cholinergic synapse, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G Protein Signaling Pathways, organism-specific biosystem;

Function

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

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