

## Recombinant Human GNAT2 293 Cell Lysate

**Cat. No.** GNAT2-5865HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2 (GNAT2) 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.                                                   |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | 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**

GNAT2 guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2 [ Homo sapiens ]

**Official Symbol**

GNAT2

**Synonyms**

GNAT2; guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2; guanine nucleotide-binding protein G(t) subunit alpha-2; ACHM4; transducin alpha-2 chain; cone-type transducin alpha subunit; transducin, cone-specific, alpha polypeptide; GNATC;

**Gene ID**

2780

**mRNA Refseq**

NM\_005272

**Protein Refseq**

NP\_005263

**MIM**

139340

**UniProt ID**

P19087

**Chromosome  
Location**

1p13

**Pathway**

G alpha (i) signalling events, organism-specific biosystem; G-protein activation, organism-specific biosystem; G-protein mediated events, organism-specific

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biosystem; GPCR downstream signaling, organism-specific biosystem; Opioid Signalling, organism-specific biosystem; PLC beta mediated events, organism-specific biosystem; Phototransduction, organism-specific biosystem;

**Function**

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

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