

## Recombinant Human GNB2 293 Cell Lysate

**Cat. No.** GNB2-5863HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for guanine nucleotide binding protein (G protein), beta polypeptide 2 (GNB2) 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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	GNB2 guanine nucleotide binding protein (G protein), beta polypeptide 2 [ Homo sapiens ]
<b>Official Symbol</b>	GNB2
<b>Synonyms</b>	GNB2; guanine nucleotide binding protein (G protein), beta polypeptide 2; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2; G protein; beta 2 subunit; guanine nucleotide binding protein G(I)/G(S)/G(T) beta subunit 2; signal transducing guanine nucleotide binding regulatory protein beta subunit; transducin beta chain 2; g protein subunit beta-2; G protein, beta-2 subunit; guanine nucleotide-binding protein G(I)/G(S)/G(T) beta subunit 2; signal-transducing guanine nucleotide-binding regulatory protein beta subunit;
<b>Gene ID</b>	2783
<b>mRNA Refseq</b>	NM_005273
<b>Protein Refseq</b>	NP_005264
<b>MIM</b>	139390
<b>UniProt ID</b>	P62879
<b>Chromosome Location</b>	7q21.3-q22.1
<b>Pathway</b>	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP

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signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Aquaporin-mediated transport, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;

**Function**

G-protein coupled receptor binding; GTPase activity; GTPase binding; calcium channel regulator activity; protein binding; signal transducer activity; type 1 angiotensin receptor binding;

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