# Recombinant Human GNB2 293 Cell Lysate

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

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | 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. |
| **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

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| **Gene Name** | GNB2 guanine nucleotide binding protein (G protein), beta polypeptide 2 [ Homo sapiens ] |
| **Official Symbol** | GNB2 |
| **Synonyms** | 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; |
| **Gene ID** | 2783 |
| **mRNA Refseq** | NM_005273 |
| **Protein Refseq** | NP_005264 |
| **MIM** | 139390 |
| **UniProt ID** | P62879 |
| **Chromosome Location** | 7q21.3-q22.1 |

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| **Pathway** | ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP 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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