Recombinant Human GUCY2C 293 Cell Lysate

Cat. No. GUCY2C-5675HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for guanylate cyclase 2C (heat stable enterotoxin receptor) (GUCY2C) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC213901, OriGene Technologies, Inc.) 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	E, IP, WB. 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	GUCY2C guanylate cyclase 2C (heat stable enterotoxin receptor) [Homo sapiens]
Official Symbol	GUCY2C
Synonyms	GUCY2C; guanylate cyclase 2C (heat stable enterotoxin receptor); GUC2C; heat-stable enterotoxin receptor; STAR; GC-C; hSTAR; STA receptor; guanylyl cyclase C; intestinal guanylate cyclase;
Gene ID	2984
mRNA Refseq	NM_004963
Protein Refseq	NP_004954
MIM	601330
UniProt ID	P25092
Chromosome Location	12p12
Pathway	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	ATP binding; GTP binding; guanylate cyclase activity; nucleotide binding; protein

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	binding; protein kinase activity; receptor activity; toxin binding; transferase activity, transferring phosphorus-containing groups;

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