Recombinant Human GNPDA2 293 Cell Lysate

Cat. No. GNPDA2-5842HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for glucosamine-6-phosphate deaminase 2 (GNPDA2) 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	GNPDA2 glucosamine-6-phosphate deaminase 2 [Homo sapiens]
Official Symbol	GNPDA2
Synonyms	GNPDA2; glucosamine-6-phosphate deaminase 2; glucosamine-6-phosphate isomerase 2; glucosamine 6 phosphate isomerase; SB52; GNPDA 2; 4921523I18Rik; glcN6P deaminase 2; glucosamine-6-phosphate isomerase SB52; putative glucosamine-6-phosphate isomerase; GNP2;
Gene ID	132789
mRNA Refseq	NM_138335
Protein Refseq	NP_612208
MIM	613222
UniProt ID	Q8TDQ7
Chromosome Location	4p13
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; N-acetylglucosamine degradation I, organism-specific

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	biosystem; N-acetylglucosamine degradation II, organism-specific biosystem; UDP-N-acetyl-D-galactosamine biosynthesis II, organism-specific biosystem;
Function	glucosamine-6-phosphate deaminase activity; hydrolase activity; isomerase activity;

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