

Recombinant Human GC 293 Cell Lysate

Cat. No. GC-5995HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for group-specific component (vitamin D binding protein) (GC) 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

GC group-specific component (vitamin D binding protein) [Homo sapiens]

Official Symbol

GC

Synonyms

GC; group-specific component (vitamin D binding protein); vitamin D-binding protein; DBP; hDBP; VDBP; VDB; gc-globulin; vitamin D-binding alpha-globulin; GRD3; VDBG; DBP/GC;

Gene ID

2638

mRNA Refseq

NM_000583

Protein Refseq

NP_000574

UniProt ID

P02774

Chromosome Location

4q12-q13

Pathway

Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Vitamin D (calciferol) metabolism, organism-specific biosystem;

Function

actin binding; vitamin D binding; vitamin transporter activity;

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