

Recombinant Human RNGTT 293 Cell Lysate

Cat. No. RNGTT-2270HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for RNA guanylyltransferase and 5-phosphatase (RNGTT) 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 [RNGTT RNA guanylyltransferase and 5-phosphatase \[Homo sapiens \]](#)

Official Symbol RNGTT

Synonyms RNGTT; RNA guanylyltransferase and 5-phosphatase; mRNA-capping enzyme; hCAP; HCE; HCE1; HCAP1; CAP1A; DKFZp686J2031;

Gene ID [8732](#)

mRNA Refseq [NM_003800](#)

Protein Refseq [NP_003791](#)

MIM [603512](#)

UniProt ID [O60942](#)

Chromosome Location 6q16

Pathway

Disease, organism-specific biosystem; Gene Expression, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem; Late Phase of HIV Life Cycle, organism-specific biosystem; RNA Pol II CTD phosphorylation and interaction with CE, organism-specific biosystem; RNA Pol II CTD phosphorylation and interaction with CE, organism-specific

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biosystem;

Function

GTP binding; hydrolase activity; mRNA guanylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; phosphatase activity; polynucleotide 5-phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; transferase activity;

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