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Datasheet for W09-001-GJ6

HepG2 Nuclear Cell Lysate

Overview

Description:	HepG2 Cell Nuclear Extract - W09-001-GJ6
Item No.:	W09-001-GJ6
Size:	200 µg
Origin:	Human

Product Details

Background:	Multi-purpose Hep-G2 nuclear extracts produced by Rockland Immunochemicals are derived from cell lines or tissues using highly refined extraction protocols to ensure exceptionally high quality, protein integrity and lot-to-lot reproducibility. All extracts are tested by SDS-PAGE using 4-20% gradient gels.
Synonyms:	HepG2 Lysate nuclear extract, cell lysate, Hep-G2 Nuclear lysate, Hep-G2 Lysate nuclear extract
Species of Origin:	Human

Target Details

Purity/Specificity:	Hep-G2 cells were grown in Eagle's Minimum Essential Medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer to lyse the cells. Protein integrity was ensured using a cocktail of protease inhibitors with broad specificity for the inhibition of aspartic, cysteine, and serine proteases as well as aminopeptidases (0.1 mM AEBSF HCl, 0.08 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate, 1 µM Pepstatin A). Phosphatase inhibitors include sodium fluoride, sodium orthovanadate, sodium pyrophosphate and β-glycerophosphate. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available kit. Protein concentration was adjusted to 4 mg/ml in RIPA buffer containing protease and phosphatase inhibitors.

Application Details

Application Note:	Multi-purpose Hep-G2 nuclear extracts are especially prepared as positive control for multiple assays including western blot, immunoprecipitation (IP), capture ELISA or other assays requiring native protein sample. For separation by SDS-PAGE and subsequent western blot analysis,

	lysates should be diluted by user to desired concentration in SDS-PAGE buffer with 2-mercaptoethanol or dithiothreitol as the reducing agent and heated to 95° C for 5 minutes. Sample is ready for use in immunoprecipitation and ELISA experiments, conditions should be optimized by the user. Rockland recommends its Trueblot IP reagents for immunoprecipitation experiments.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	User Optimized
IP:	User Optimized
WB:	User Optimized

Cell Line Data

Cell Line:	Human - hepatocellular carcinoma
Lysate Fractionation:	Nuclear Extract
Lysate Stimulation:	Not Stimulated
Culture Type:	Tissue Culture
Induction:	None (Control)

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	4.0 mg/mL by BCA assay
Buffer:	1X RIPA Buffer with HALT Protease and Phosphatase Inhibitors
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -70° C or COLDER. For extended storage, aliquot Nuclear Extract to minimize freeze/thaw cycles.
Expiration:	Expiration date is three (3) months from date of receipt.

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Disclaimer

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