



## Datasheet for ABIN964023 Hep2 Whole Cell Lysate



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### Overview

Quantity:	500 µg
Protein Species:	Human
Species of Lysate:	Human Cells
Application:	Western Blotting (WB)

### Product Details

**Specificity:** Hep2 cells were grown in Dulbecco's medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer, containing 150 mM sodium chloride, 50 mM Tris HCl, pH 7.4, 1 mM EDTA, 1.0% NP-40, 0.5% sodium deoxycholic acid, 0.1% SDS and 0.01% (w/v) sodium azide 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 1 mM NaF and 1 mM Na3VO4 were also added. 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 2 mg/ml and then an equal volume of 2X SDS-PAGE sample buffer was added.

**Characteristics:** Cell Line: Human HEp2 (HeLa contaminant)  
Induction: None (Control)

**Lysate Fraction:** Whole Cell Lysate

**Lysate Type:** Cell Lysate

**Lysed Cells:** HepG2 Cells

## Target Details

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**Background:** Hep2 Whole Cell Lysate Ready-to-use whole cell lysates produced 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 and immunoblot analysis using antibodies to key cell signaling components to confirm the presence of both high molecular weight and low molecular weight proteins.

Synonyms: Hep2, Lysate, Whole Cell Lysate, Hep2 Lysate

## Application Details

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**Application Notes:** Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE and subsequent western blot analysis. Lysates are prepared in denaturing buffer WITHOUT dissociating agents (i.e. no 2-mercaptoethanol or dithiothreitol has been added). Heat lysate to 95° C for 5 minutes and rapidly cool. If dissociating conditions are desired, add reducing agent prior to heating. The recommended loading volume per lane is 10-20 µl depending on the size format of your gel.

**Comment:** Lysate Fractionation: Whole Cell Lysate  
Lysate Stimulation: Not Stimulated  
Lysate Tissue Culture: Tissue Culture

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1.0 mg/mL

**Buffer:** 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)

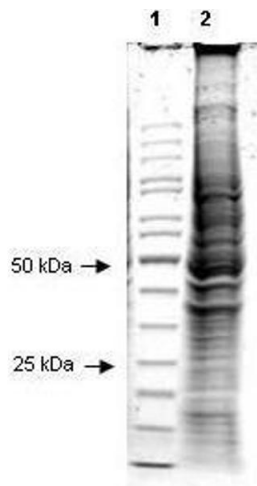
**Handling Advice:** Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE and subsequent western blot analysis. Lysates are prepared in denaturing buffer WITHOUT dissociating agents (i.e. no 2-mercaptoethanol or dithiothreitol has been added). Heat lysate to 95 °C for 5 minutes and rapidly cool. If dissociating conditions are desired, add reducing agent prior to heating. The recommended loading volume per lane is 10-20 µl depending on the size format of your gel.

**Storage:** -80 °C

**Expiry Date:** 3 months

Product cited in: Laffy, Dodev, Macpherson, Townsend, Lu, Dunn-Walters, Fraternali: "Promiscuous antibodies characterised by their physico-chemical properties: From sequence to structure and back." in: **Progress in biophysics and molecular biology**, Vol. 128, pp. 47-56, (2017) ([PubMed](#)).

Validation report #101185 for Enzyme Immunoassay (EIA)



#### SDS-PAGE

**Image 1.** Coomassie stained SDS-PAGE of 20  $\mu$ l of Human Derived Hep2 Whole Cell Lysate (Ready-to-Use) separated in a 4-20% gradient gel under reducing conditions (lane 2). Molecular weight standards are shown in lane 1.