Datasheet for ABIN964023  
**Hep2 Whole Cell Lysate**

### Overview

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>500 μg</th>
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<tbody>
<tr>
<td>Protein Species:</td>
<td>Human</td>
</tr>
<tr>
<td>Species of Lysate:</td>
<td>Human Cells</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB)</td>
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</tbody>
</table>

### 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**

**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**

**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**

**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
Publications


Images

SDS-PAGE

Image 1. Coomassie stained SDS-PAGE of 20 µl 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.