

## Product Datasheet

### U-2OS Whole Cell Lysate (orb348676)

## Description

U-2OS Whole Cell Lysate

### Conjugation

Unconjugated

### Tested

SDS-PAGE, WB

### Applications

### Preservatives

Preservative: None. Stabilizer: 10% (v/v) Glycerol. 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)

### Form/Appearance

Liquid (sterile filtered)

### Concentration

1.0 mg/ml

### Storage

Store vial at -70° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.

### Note

For research use only

### 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.

### Purity

The 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 Na<sub>3</sub>VO<sub>4</sub> were also added. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available

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### Hazard

Non-Toxic