

## Product datasheet

# MCF7 whole cell lysate ab3871

## 2 References

### Overview

<b>Product name</b>	MCF7 whole cell lysate
<b>General notes</b>	Source - MCF7 cells (human) from ATCC (cat# HTB-22).  MCF7 whole cell lysate was prepared by homogenization in modified RIPA buffer (150 mM NaCl, 50 mM Tris-HCl, pH 7.4, 1% Triton X-100, 1 mM EDTA, 1 mM PMSF, 5 µg/ml Aprotinin, 1 µg/ml Pepstatin-A, 2 µg/ml Leupeptin, 1 mM Na <sub>3</sub> VO <sub>4</sub> , 1 mM NaF). Debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The lysate was boiled for 5 min in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecyl sulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol.
<b>Tested applications</b>	<b>Suitable for:</b> WB

### Properties

<b>Mycoplasma free</b>	Yes
<b>Form</b>	Liquid
<b>Storage instructions</b>	Store at -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituents: 5% Bromophenol blue, 2% Beta mercaptoethanol, 4.4% Sodium lauryl sulfate, 7.9% Tris HCl, 20% Glycerol
<b>Lysate notes</b>	MCF7 whole cell lysate was prepared by homogenization in modified RIPA buffer (150 mM NaCl, 50 mM Tris-HCl, pH 7.4, 1% Triton X-100, 1 mM EDTA, 1 mM PMSF, 5 µg/ml Aprotinin, 1 µg/ml Pepstatin-A, 2 µg/ml Leupeptin, 1 mM Na <sub>3</sub> VO <sub>4</sub> , 1 mM NaF). Debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The lysate was boiled for 5 min in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecyl sulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol.
<b>Background</b>	MCF-7 cells are a well-characterized estrogen receptor (ER) positive control cell line (cells are positive for cytoplasmic estrogen receptors) and therefore are a useful in vitro model of breast cancer to study the role of estrogen in breast cancer. Cells are also positive for cytokeratin and negative for desmin , endothelin , GFAP , neurofilament, vimentin.

### Applications

## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab3871 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. MCF7 whole cell lysate is ready to load on SDS-PAGE for Western blotting. We recommend loading 20 µg per lane for mini gels.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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