

RIPA Buffer (Cell Lysis Solution)

RIPA Buffer is a ready-to-use solution containing a variety of surfactants and protease inhibitors. Proteins lysed with RIPA Buffer can be used in western blotting or ELISA or immunoprecipitation testing regimes.

- » **Ready-to-use**
- » **Contains protease inhibitors**
- » **Unmixes SDS solution for immunoprecipitation**
- » **Enables quantification via the Protein Assay Bicinchoninate Kit**

Effect of protein extraction and immunoprecipitation with SDS

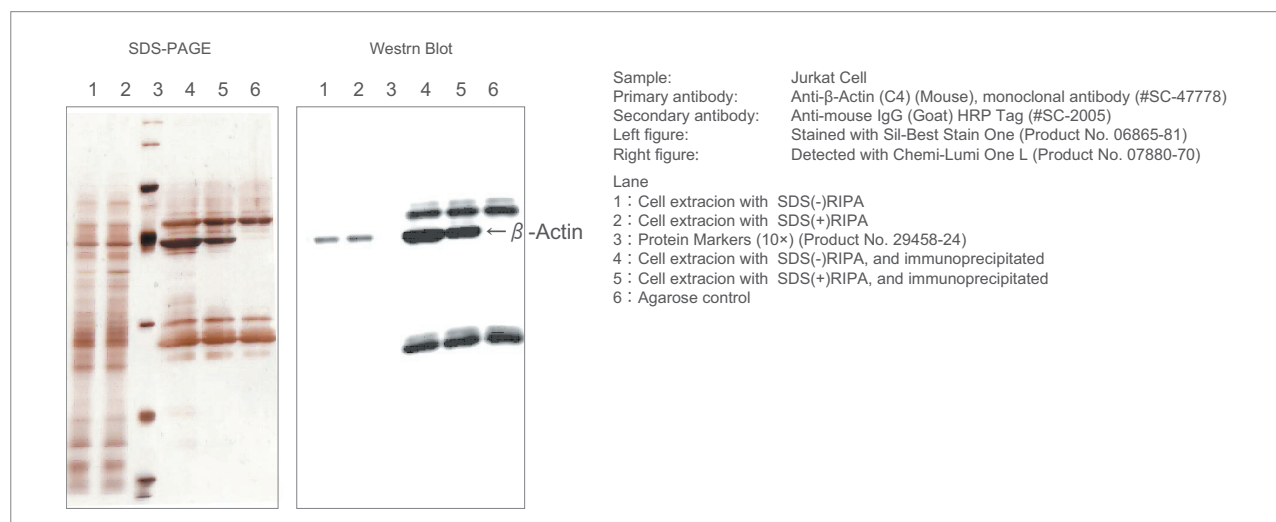
Protein Electrophoresis

Extraction: Wash 100 mg of tissue with cold PBS. Add 300 μ l of RIPA Buffer and leave on ice for 30 minutes.



Immunoprecipitation

Extraction: Add Jurkat Cell 1.0×10^7 to 1ml of RIPA Buffer, and on ice for 15 minutes.



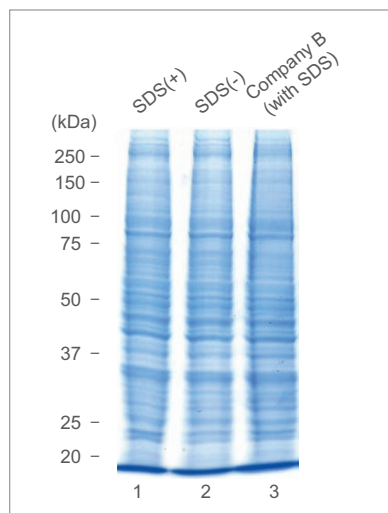
For protein extraction, SDS(+) provides high resolution and is capable of producing an extract from any tissue. For immunoprecipitation, SDS(-) offers high tissue resolution. Note that the SDS solution comes unmixed with RIPA Buffer. RIPA Buffer is suitable for both protein extraction and immunoprecipitation uses.

RIPA Buffer (Cell Lysis Solution) (continued)

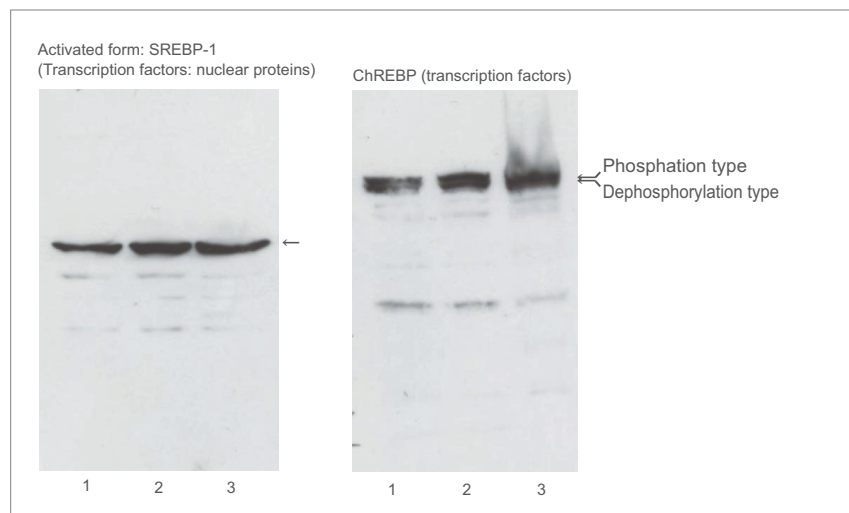
Application

Detection of Transcription Factors (SREBP-1, ChREBP) with Western Blotting

CBB Stain
(Stained with CBB Stain One)



Western Blotting
(Blocking; Blocking One, Detection: Chemi-Lumi One L)



Data courtesy of Dr. Tatsuya Moriyama, Faculty of Agriculture, Department of Applied Biological Chemistry, Kinki University

RIPA buffer offers efficient extraction of proteins such as cytoplasm, or the nucleus of an organelle, which were previously hard to extract.

Components

Reagent Name	Volume	Quantity	Package
RIPA Buffer with Protease Inhibitor Cocktail, without SDS (10x)	2 ml	5 bottles	Brown tube
SDS Solution (1% SDS)	2 ml	5 bottles	White tube

Adjustment of 1x solution (with SDS):

50mmol/l Tris-HCl Buffer (pH 7.6), 150mmol/l NaCl, 1% Nonidet P40, 0.5% Sodium Deoxy Cholate, Protease Inhibitor Cocktail (1x) (EDTA free), (0.1% SDS)

Ordering Information

Product Name	Storage	Product No.	PKG Size
RIPA Buffer	F	08714-04	1 set

Related Products

Product Name	Storage	Product No.	PKG Size
Phosphatase Inhibitor Cocktail	R	07574-61	1 ml
Phosphatase Inhibitor Cocktail (EDTA free)	R	07575-51	1 ml
CBB Stain One (Ready To Use)	RT	04543-51	1 L
		04543-64	5 L
Chemi-Lumi One L	R	07880-70	1 kit
Sil-Best Stain One	R	06865-81	1 set
Blocking One	R	03953-95	500 ml
Blocking One-P	R	05999-84	200 ml
WB Stripping Solution	R	05364-55	500 ml
WB Stripping Solution Strong	R	05677-65	500 ml

[Storage] RT = Room temperature, R = Refrigerator, F = Freezer