

RIPA Lysis Buffer

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CATALOG # AAA174677	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

RIPA; RIPA Lysis Buffer; RIPA lysis buffer

PRODUCT SPECIFICATIONS

Form/Format	50 mM Tris (pH7.4), 150 mM NaCl, 1% Triton X-100, 1% C ₂₄ H ₃₉ O ₄ Na, 1 mM EDTA, 0.1% SDS, 10 mM NaF, 1 mM Na ₃ VO ₄ , 1 mM PMSF
Sequence Length	227
Applicable Applications for RIPA lysis buffer	WB (Western Blot)
Instructions	1. For Tissue Samples - Take the samples, wash the tissue thoroughly with pre-cooled PBS (0.01M, pH7.4) to remove the surface blood and internal debris. - Weigh and smash the tissue, add an appropriate ratio of RIPA Lysis Buffer (add 10 uL PMSF and 10 uL Na₃VO₄ to 1 mL RIPA Lysis) and homogenizely lyse the tissue. It is recommended to homogenize according to the ratio of tissue weight: RIPA volume = 3:10. For example, add 1 mL RIPA Lysis Buffer to 0.3 g tissue sample, the specific volume can be adjusted according to experimental requirements. - Shake and lyse on the ice for 30 min after homogenization. Blow the sample repeatedly with a Pipette gun for about 50 times (under ice water bath conditions) to Make sure the DNA strand is broken and reduce the viscosity of sample. - Centrifuge at 12,000 rpm for 10 min at 4°C. - Take the supernatant and measure the protein protein concentration. 2. For Cell Sample - Collect the cells, wash them thoroughly with pre-cooled PBS (0.01 M, pH 7.4) to remove the medium off (it is generally recommended to wash 3 times). - Add an appropriate ratio of RIPA Lysis Buffer (10 uL PMSF and 10 uL Na₃VO₄ in 1 mL RIPA Lysis) and lyse on the ice for 30 min. It is recommended to add 0.1 mL of RIPA Lysis Buffer to each well of a 6-well plates (the protein content in different cells may vary, and the volume of the lysate added can be appropriately adjusted). - Blow the sample repeatedly with a Pipette gun for about 50 times (under ice water bath conditions) to make sure the DNA strand is broken and reduce the viscosity of the sample. - Centrifuge at 12,000 rpm for 10 min at 4°C. - Take the supernatant and measure the protein concentration.
Cautions	- All steps to lyse samples should be performed on ice or at 4°C. - It is recommended to add 10 uL PMSF and 10 uL Na₃VO₄ to 1 mL RAPI Lysis before use. If RIPA Lysis is precipitated, please dissolve at room temperature or in a warm water bath. - It is normal for a clean gelatinous substance to appear in the lysate of RIPA lysate. This transparent gel is a complex containing genomic DNA. Repeatedly blowing the sample with a pipette about 50 times can effectively reduce the viscosity of the sample. After centrifugation, the supernatant can be taken for subsequent experiments. - The tissue or cell sample lysed by RIPA cannot be measured by the Bradford method because of the high concentration of detergent in the lysis. It is recommended to measure the protein concentration by the BCA method. - For your safety and health, please wear the lab coat and disposable gloves before the experiments.
Preparation and Storage	Store at -20°C for 12 months

ADDITIONAL INFORMATION

Related Product Information for RIPA lysis buffer	Introduction: RIPA Lysis Buffer is a traditional rapid cell tissue lysate used as the preferred lysate for protein extraction from tissues or cells in the Western Blot assay.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	958256518
NCBI Official Full Name	RIPA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lysis-buffer/ripa/174677>