

IntactProtein™ Cell Lysis Kit

If you're looking for a one-stop solution for extracting protein from cells or tissues, our proprietary formulation IntactProtein™ Cell Lysis Kit will be your best choice. **Our unique formula solves the difficulties of macromolecular protein extraction and easy loss of certain protein modification signals.** It is simple and convenient to use, and has been by world-class research institutions such as Yale University and Columbia University.

BACKGROUND

The extraction of large proteins from cells or tissues and the protection of signals from chemical modifications are two difficult problems in protein biology. We solve these problems effectively with our unique formulation, providing complete quality protein samples for your downstream experiments such as immunoblotting (WB).

The pyrolysis liquid test case consists of two parts:

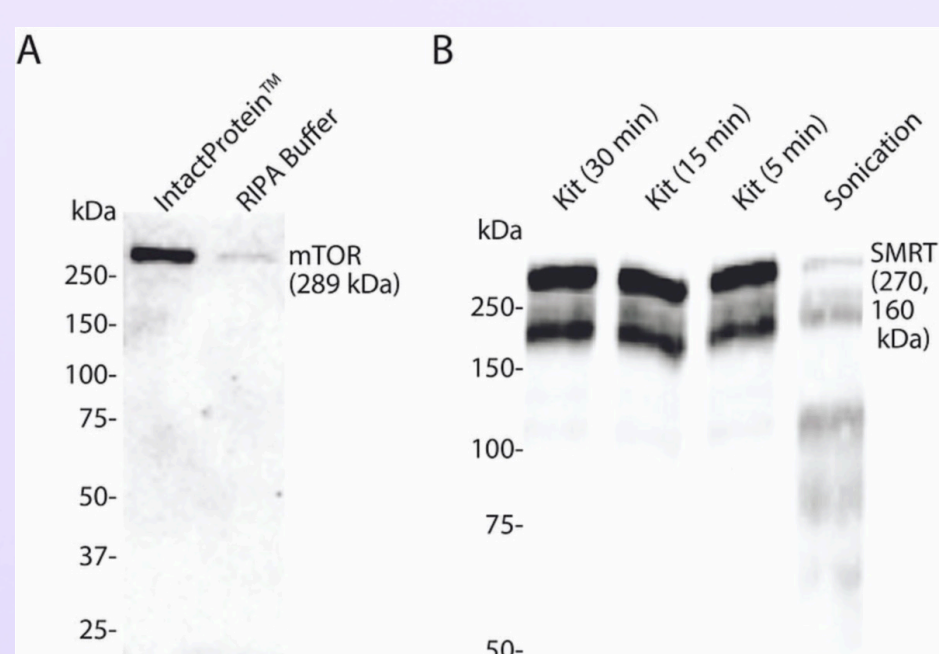
- 1) Component A, preserved at -20 ° C;
- 2) Component B, stored at room temperature or 4 ° C. Prepare and mix according to the instructions before use.

KEY FEATURES

- Specifically formulated to preserve large sized protein from fragmentation during extraction.
- No need for sonication and optimization.
- Ready-to-use, saving your time by avoiding the extra steps of adding protease and phosphatase inhibitors.
- Simple-to-use; can extract large-, medium-, and small-sized proteins in as short as 15 minutes.

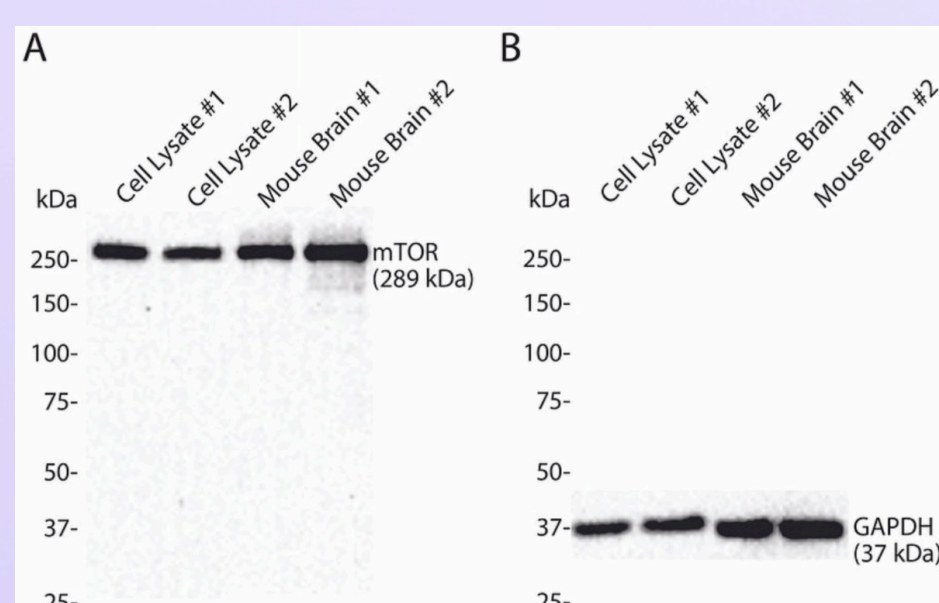
Cat.#	Component A	Component B	Storage	Applications
415S	40 μ L	20mL	Component A at -20°C ; B at Rt	Mammalian cell lysis
415M	100 μ L	50mL	Component A at -20°C ; B at Rt	Mammalian cell lysis
415L	200 μ L	100mL	Component A at -20°C ; B at Rt	Mammalian cell lysis

Figure 1.



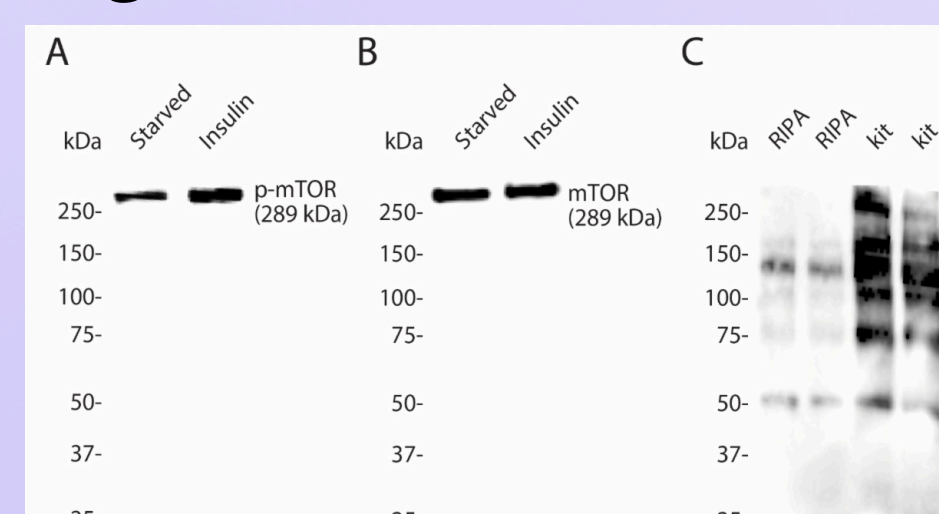
The IntactProtein™ lysis kit demonstrates superior performance in extracting large proteins. **(A)** HeLa cells were lysed using the IntactProtein™ lysis kit or RIPA buffer. Total lysates (50 μg) were immunoblotted with anti-mTOR antibody. **(B)** HT1080 cells were lysed using the Kit, processed for the indicated time, and immunoblotted with anti-SMRT antibody. Note that sonication fragmented SMRT to smaller peptides. Our lysis kit protected SMRT from fragmentation.

Figure 2.



The IntactProtein™ lysis kit is effective in extracting proteins from cells and tissues. **(A)** HeLa cells and mouse brains (in duplicate) were lysed using the IntactProtein™ lysis kit. Total lysates (50 μg) were immunoblotted with anti-mTOR antibody. **(B)** The same lysates in **(A)** were immunoblotted with anti-GAPDH antibody. Note that the IntactProtein™ lysis kit is suitable for extracting proteins with a broad range of molecular weights from both cells and tissues.

Figure 3.



The IntactProtein™ lysis kit effectively preserves protein post-translational modifications (PTMs). **(A-B)** HeLa cells were serum starved for 16 h and stimulated with insulin (150 nM) for 5 min before protein extraction using the IntactProtein™ lysis kit. Total lysates (50 μg) were immunoblotted with anti-phospho-mTOR (Ser2448) **(A)** and anti-mTOR **(B)** antibodies, respectively. **(C)** HeLa cells were lysed using the RIPA buffer or the IntactProtein™ lysis kit. Cell lysates were immunoblotted with anti-O-GlcNAc (glycosylation) antibody.

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