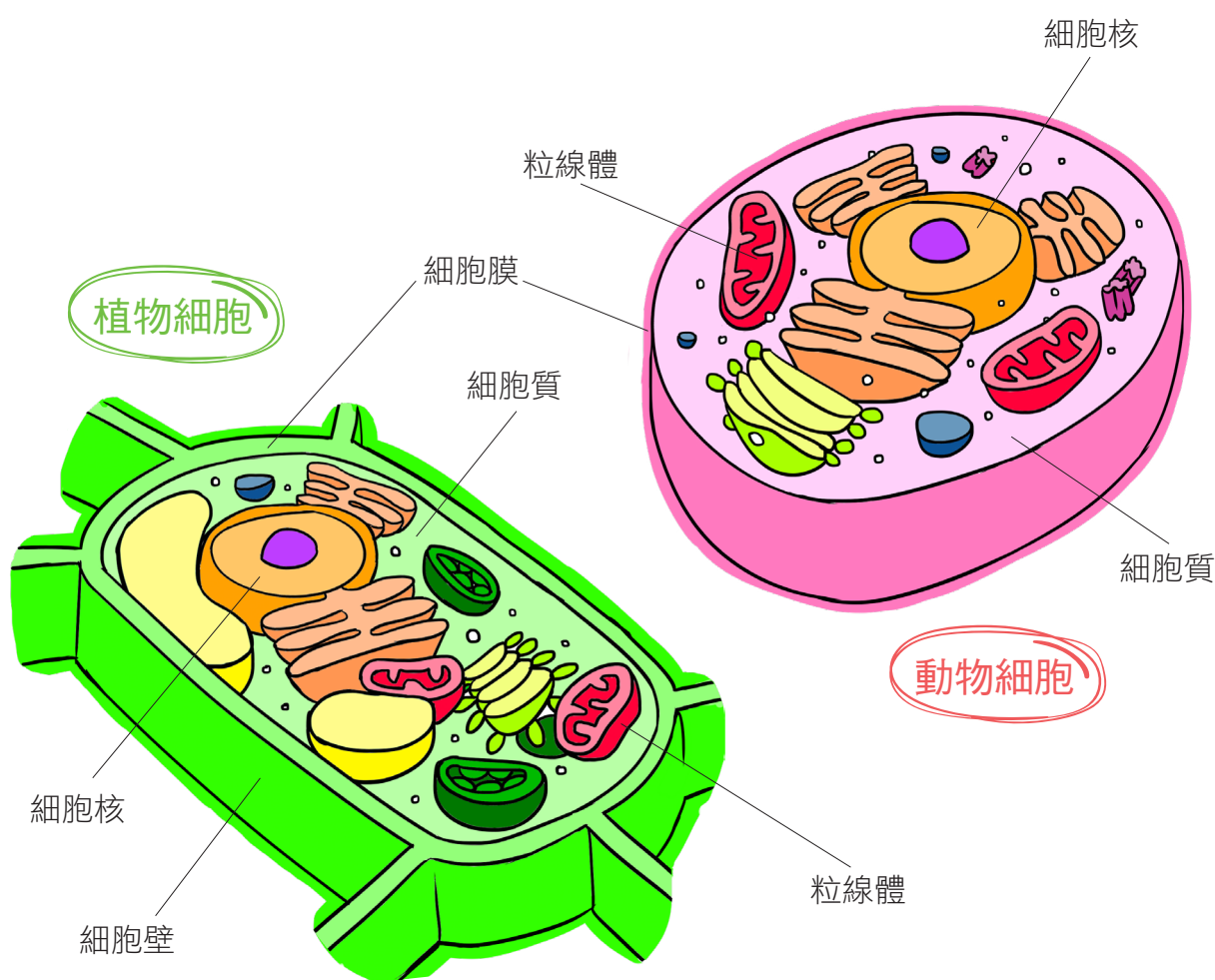


Protein Extraction

溫和 萃取 不失活蛋白



Protein Extraction Reagents Application Guide

Cat No.	cell type	product	Starting Material		Applications							
			Total Culture	Cell Pellet	HT Compatible	Analysis						Purification
						1D PAGE	2D PAGE	IEF	MS	WB	Activity Assay	
E-coli												
71456	BugBuster Master Mix			●	●	●	●	●		●	●	●
70584	BugBuster Protein Extraction Reagent			●		●	●	●		●	●	●
70922	BugBuster HT Protein Extraction Reagent			●	●	●	●	●		●	●	●
70923	BugBuster (Primary amine-free) Extraction Reagent			●		●	●	●		●	●	●
70921	BugBuster 10X Protein Extraction Reagent			●	●	●	●	●		●	●	●
71092	PopCulture Reagent		●		●	●				●	●	●
71113	RoboPop Purification Kits		●		●	●			●	●	●	●
71114	(magnetic or filtration base)											
Yeast												
71186	YeastBuster Protein Extraction Reagent			●		●				●	●	●
Insect												
71009	CytoBuster Protein Extraction Reagent			● ⁺		●	● [*]	● [*]		●	●	●
71187	Insect Protein Extraction Reagent		●		●	●				●	●	●
Lysis and Extraction Enhancement												
71110	Gram-negative bacteria (E-coli)	rLysozyme Solution	●	●	●	●				●	●	●
71230		rLysozyme Bioprocessing Reagent	●	●	●	●				●	●	●
71412	Gram-positive bacteria (E-coli)	Chicken Egg White Lysozyme Solution	●	●	●	●				●	●	●
70746	All cells	Benzonase Nuclease	●	●	●	●				●	●	●

Key : 1D PAGE = One-dimensional Polyacrylamide Gel Electrophoresis
2D PAGE = Two-dimensional Polyacrylamide Gel Electrophoresis
* = Salt must be removed before IEF

MS = Mass Spectrometry R = Reporter Assay +=Monolayer
IEF = Isoelectric Focusing G = Gel Shift

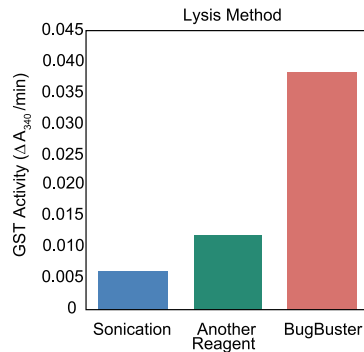
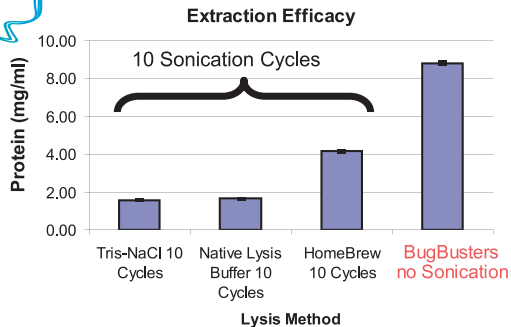
Mammalian Cell Protein Extraction Reagents Application Guide

分類	Cat No.	Description	Qty/Pk
核蛋白	2900	Nuclear Extraction Kit Mammalian cells	100 rxns
膜蛋白	444810-1KITCN	ProteoExtract® Native Membrane Protein Extraction Kit	20 Extractions
	71772-3CN	ProteoExtract® Transmembrane Protein Extraction Kit	20 Extractions
粒線體	QIA88-1KITCN	ProteoExtract® Cytosol/Mitochondria Fractionation Kit	100 Extractions
Subcellular Protein	539790-1KITCN	ProteoExtract® Subcellular Proteome Extraction Kit	20 Extractions
	2140	Total Protein Extraction Kit	Kit (5g tissue/cells)
Total protein	2145	Compartment Protein Extraction Kit	Kit (5g tissue/1.25x10 ⁹ cells)
	71009-4CN	CytoBuster™ Protein Extraction Reagent	250 ml
	20-188	10X RIPA Lysis Buffer	100 ml

BugBuster Protein Extraction Reagent

- 不失活性：針對細菌細胞壁提供溫和的方式來萃取，能使蛋白質不失去活性。
- 高回收率：BugBuster Master Mix 結合了 BugBuster、Benzonase、Nuclease 與 rLysozyme，提高回收率。
- 步驟簡單：收集細菌 – 添加 Extraction Reagent – 離心收蛋白

高產量

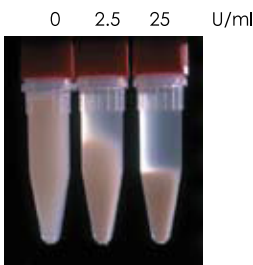


高活性

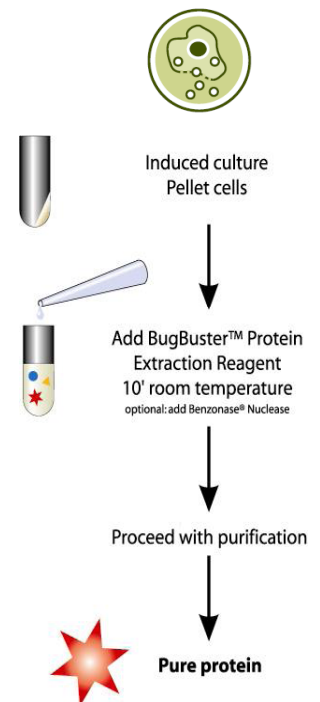
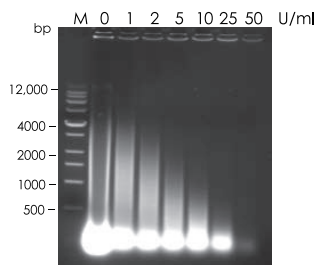
Benzonase

- 降低黏稠度：有利於後續離心或純化步驟，避免純化步驟塞管。
- 高回收率：Benzonase 能去除 DNA 及 RNA，提高蛋白回收率。
- GMP：製造過程符合 GMP 規範，並符合 ISO 9001 and 14001。
- 具有 DMF：DMF type II file (FDA Reg. No. BBMF 5403)。
- 嚴謹的 QC：產品經過 LAL test，endotoxin 低於 0.25 EU/1000 units。
- 適用的應用範圍廣：可適用於 ELISA, chromatography, 2D 及 footprint analysis 等。

有效降低黏稠度

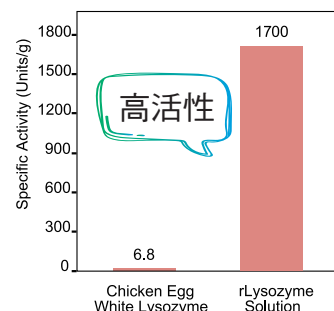


有效移除核酸



搭配好幫手：rLysozyme

- 活性高：活性高於 chicken egg white lysozyme 250 倍以上。
- 節省：1g 的細胞只需添加 1~2 ul rLysozyme 即可。
- rLysozyme Bioprocessing Reagent：不含 detergent。

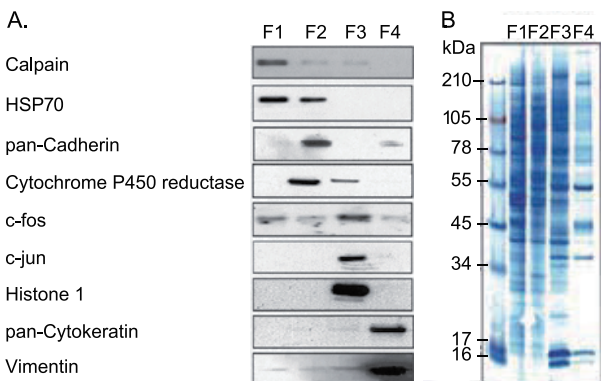
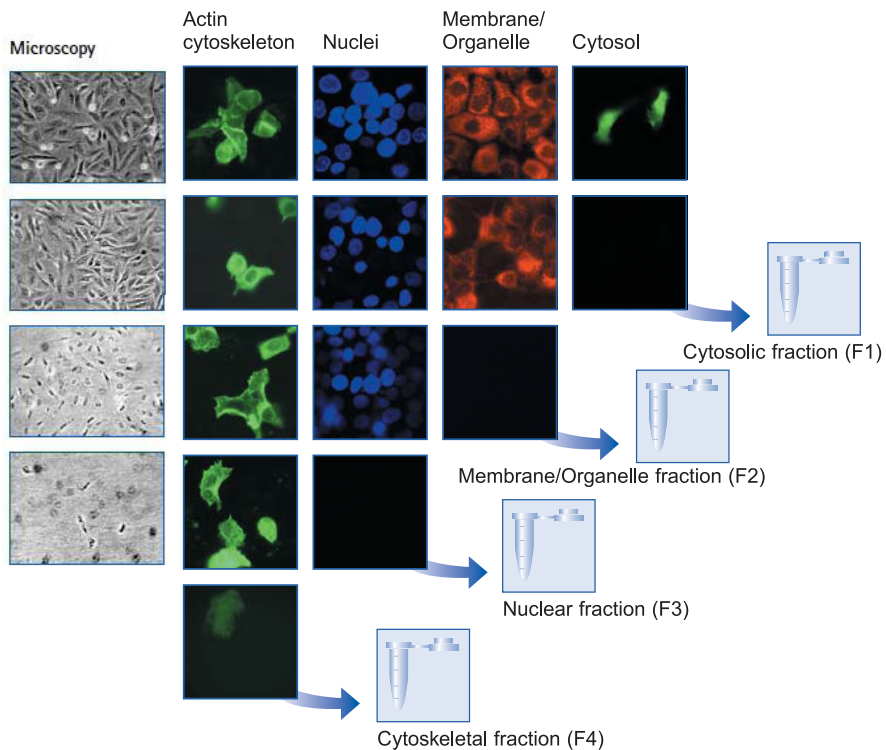


高活性

ProteoExtract[®]

Subcellular Proteome Extraction Kits

- 快速：兩個小時內快速的從單一樣品中分離細胞中不同位置的四種蛋白質。Cytosolic, membrane/ organelle, soluble nuclear, cytoskeletal/ nuclear matrix fraction。
- 可得 Native 的蛋白：適用於進行 protein microarrays, kinase assay, Enzyme activity assays 及 SELDI-profiling。
- 過程簡單：不需經過超高速離心。
- citation 多。



Stepwise extraction with S-PEK demonstrates distinct protein patterns for each isolated subcellular fraction

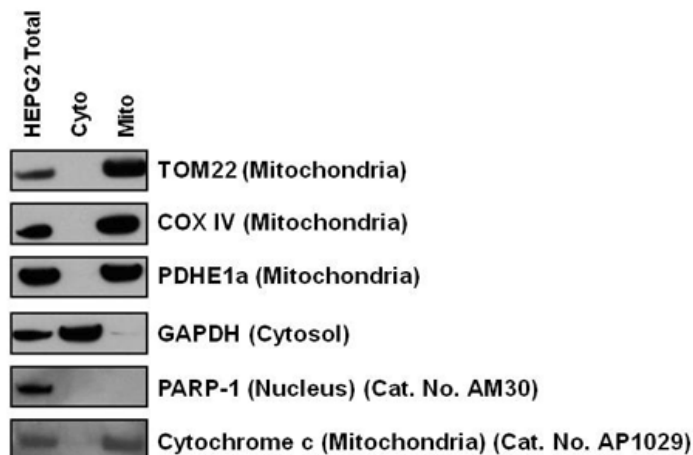
Panel A : Immunoblots of selected marker proteins demonstrate separation efficiency greater than 80% for subcellular compartments of mammalian tissue culture cells. For detection of c-fos, the protein was immunoprecipitated before electrophoresis.

Panel B : Polyacrylamide gel analysis of subcellular fractions after S-PEK extraction of adherent tissue culture cells demonstrates clearly distinct protein patterns for each fraction. Fractions are as follows: F1, cytosolic fraction; F2, membrane / organelle fraction; F3, soluble nuclear fraction; F4, cytoskeletal / nuclear matrix fraction.

ProteoExtract[®]

Cytosol/Mitochondria Fractionation Kit

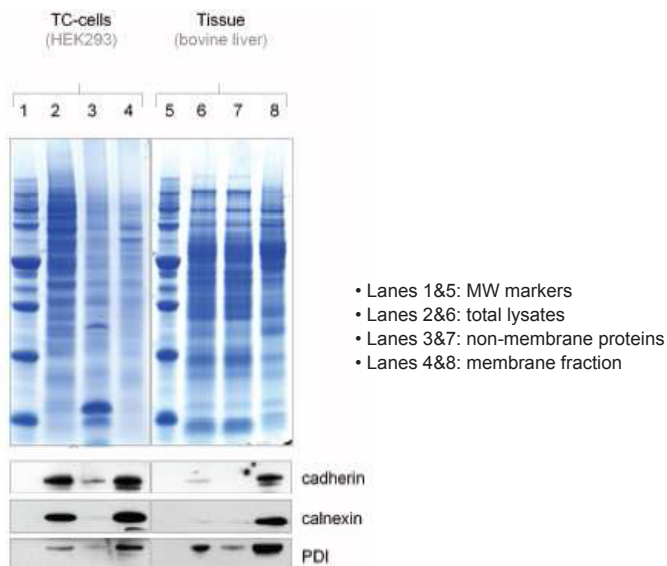
- 節省：一組 Kit 同時可得兩個不同位置的蛋白質。Cytosol 及 Mitochondria fraction。
- 可得 Native 的蛋白：適用於 WB, ELISA, Protein translocation 研究。
- 過程簡單：不需經過超高速離心。



ProteoExtract[®]

Native Membrane Protein Extraction Kit

- 樣品試用廣：貼覆型細胞，懸浮型細胞，冷凍的細胞，組織。
- 可得 Native 的蛋白：適用於 ELISA, kinase assay, Enzyme activity assays 及 SELDI-profiling 研究。
- 過程簡單：只需兩個步驟即可完成。



MERCK

Protein Extraction

