

Product Datasheet

Subcellular Protein Fractionation Kit

NBP2-47659

Unit Size: 50 Assays

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-47659**Subcellular Protein Fractionation Kit****Product Information**

Unit Size	50 Assays
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C. Avoid freeze-thaw cycles.

Product Description

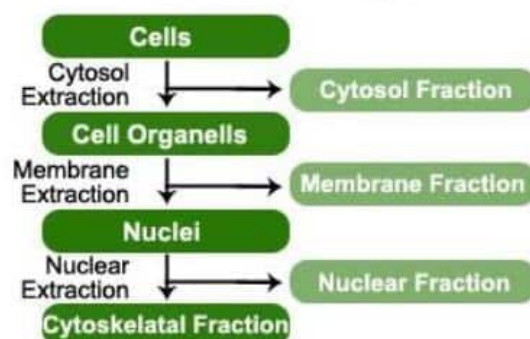
Description	<p>The Cell Fractionation kit is designed to provide reproducible extraction of four subcellular protein fractions (cytosol, nucleus, membrane/particulate, and cytoskeletal fractions) from a single mammalian sample. The method is fast and simple, needing only 2 hours and no ultracentrifugation involved. All four protein fractions obtained are suitable for many downstream applications such as 1-D or 2-D gel, enzyme activity assays, gel shift assay, and Western blotting.</p> <p>The percentage of proteins in the different fractions are cell-dependent, usually in the range of 20-30% cytosol, 25-35% membrane (organelles), 15-25% Nuclei, 15-25% insoluble.</p> <p>This product is manufactured by Abcam and distributed by Novus Biologicals. (Abcam Catalog Number: ab288085)</p>
Species	Mammal
Kit Components	Cytosol Extraction Buffer (CEB), Membrane Extraction Buffer-A (MEB-A), Membrane Extraction Buffer-B (MEB-B), Nuclear Extraction Buffer (NEB), DTT (1 M), Protease Inhibitor Cocktail (lyophilized)

Product Application Details

Applications	Western Blot, Enzyme Activity, Gel Supershift Assay
Recommended Dilutions	Western Blot, Gel Supershift Assay, Enzyme Activity
Application Notes	In Western analysis, if a membrane protein appears mainly in the nuclear fraction, the membrane extraction step may not be sufficient. Make sure to add Membrane Extraction Buffer B into the extraction, which contains NP-40 detergent. If it still shows the same result, increase incubation time from 1 min to 5 min after adding MEB-B. NP-40 should extract membrane proteins from most of cells.

Images

Subcellular Protein Fractionation Kit [NBP2-47659]

Fractionation Diagram

Publications

Luguang Liu, Longgang Wang, Liqing Liu, Xianlin Qu, Weizhu Zhao, Jishuang Ding, Siwei Zhao, Botao Xu, Hang Yu, Bing Liu, Jie Chai Acyltransferase zinc finger DHHC-type containing 2 aggravates gastric carcinoma growth by targeting Nrf2 signaling: A mechanism-based multicomination bionic nano-drug therapy. Redox biology 2024-02-26 [PMID: 38301594]

Fausther M, Lavoie EG, Goree JR, Dranoff JA. An Elf2-like transcription factor acts as repressor of the mouse ecto-5'-nucleotidase gene expression in hepatic myofibroblasts Purinergic Signal. 2017-06-30 [PMID: 28667437]

Xu M, Tan J, Zhu L et al. Palmitoyltransferase ZDHHC3 Aggravates Nonalcoholic Steatohepatitis by Targeting S-Palmitoylated IRHOM2 Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2023-08-06 [PMID: 37544908]

Blazejewski SM, Bennison SA, Ha NT Et al. Rpsa Signaling Regulates Cortical Neuronal Morphogenesis via Its Ligand, PEDF, and Plasma Membrane Interaction Partner, Itga6 Cerebral cortex (New York, N.Y. : 1991) 2021-08-04 [PMID: 34347028]





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