

Product Datasheet

Subcellular Protein Fractionation Kit NBP2-47659

Unit Size: 50 Assays

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-47659

Updated 10/23/2024 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-47659



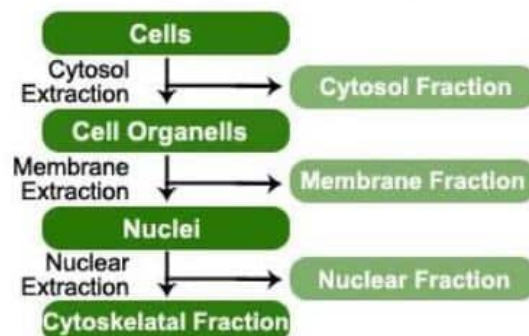
NBP2-47659

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]

Blazjewski 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]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-47659

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

