

# Product Datasheet

## Mitochondria Isolation Kit

### NBP2-29448

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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**NBP2-29448**

## Mitochondria Isolation Kit

<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.
<b>Product Description</b>	
<b>Description</b>	<p>This kit can be used to isolate cytosolic and mitochondrial fractions from the same cell or tissue preparations. The procedure is based on the principle of differential centrifugation. The high density nuclei are first removed by low-speed centrifugation on a sucrose cushion. The supernatant containing the mitochondria is subjected to high speed centrifugation to retrieve the mitochondria.</p> <p>This kit contains reagents required for the isolation of mitochondria from 10 grams of mammalian tissues (liver, muscle, etc.) or 100 reactions for cells grown in tissue culture plates. The mitochondrial and cytosolic fractions can be used for studying apoptotic and signal transduction pathways to detect translocation of any factors of interest within the two fractions by western blotting, ELISA, or other assay.</p>
<b>Species</b>	Non-species specific
<b>Kit Components</b>	5X Homogenization Buffer (50 mL), 5X Suspension Buffer (2 x 50 mL), Mitochondrial Staining Solution (1 mL), Mitochondrial Lysis Buffer (50 mL), 10X PBS (2 x 50 mL), 1M DTT (100 uL), 100X Protease Inhibitor Cocktail (PIC) (100 uL)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot
<b>Recommended Dilutions</b>	Western Blot



### **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.

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