

Datasheet: ICT946 BATCH NUMBER 152630

Description:	MITOCHONDRIAL MEMBRANE POTENTIAL KIT			
Name:	MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT™ TMRE KIT			
Format:	TMRE Mitochondrial Stain (Red Fluorescence)			
Product Type:	Kits			
Quantity:	500 TESTS			

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols.							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry	•						
	Immunofluorescence	-						
	Where this product has not been tested for use in a particular technique this does not							
	necessarily exclude its use in such procedures. Suggested working dilutions are given as							
	a guide only. It is recommended that the user titrates the product for use in their own							
	system using appropriate negative/positive controls.							
Product Information	The MitoPT TMRE kit uses a quick and easy staining method to clearly differentiate between non-apoptotic and apoptotic cells through mitochondrial functionality.							
Test Principle	An early indication of apoptosis involves a collapse in the electrochemica the mitochondrial membrane. Loss of mitochondrial membrane potential by a unique fluorescent cationic dye known as TMRE (tetramethylrhodam that has been incorporated into the MitoPT™ TMRE kit.							
	The MitoPT [™] TMRE reagent easily penetrates cells and enters the mitochondria. It aggregates in the mitochondria of non-apoptotic cells and fluoresces bright orange/red, whilst in apoptotic cells it diffuses throughout the cell. Once dispersed, the reagent assumes a monomeric form and exhibits a reduced orange/red fluorescence level. This allows an easy distinction between apoptotic and non-apoptotic fluorescent cells which can be read with a flow cytometer, fluorescence microscope or a fluorescence plate reader using black microtitre plates.							
Reagents In The Kit	MitoPT™ TMRE Reager 10x Assay Buffer, 125ml 600uL 50mM carbonyl cy	nt - lyophiliz (x2) yanide m-c	zed - to m hlorophe	nake up 1mM stock nylhydrazone (CCCP)	concentrate in DMSO.			

Instructio	ons For Use	Instructio /IFU/IFUI	<u>s.com/uploads</u>					
Storage		y Buffer can be stored at 2-8°C eagent from light at all times. stored at -20°C, protected from						
Guarante	90							
Acknowl	edgements	MitoPT™ is a trademark of Immunochemistry Technologies, LLC.						
Health A Informat	nd Safety ion	Material Safety Datasheet documentation #20294 #10474 #10479 available at: <u>https://www.bio-rad-antibodies.com/SDS/ICT946</u> MitoPT™ TMRE Reagent (20294) 10X Assay Buffer (10474) CCCP Reagent (10479)						
Regulatory		For resea	arch purpose:					
North & South America	Tel: +1 800 265 Fax: +1 919 878 Email: antibody_	7376 3751 _sales_us@bio-	Worldwide rad.com	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bid	Europe o-rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com		
To find a b	atch/lot speci	ïc datashee	et for this produ	ict, please use our online 'M360623:191127'	search tool at:	bio-rad-antibodies.com/datasheets		
				Printed on 29 Aug 2024				

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