

Datasheet: ICT946

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 www.bio-							
	rad-antibodies.com/protocols.							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry	-						
	Immunofluorescence	-						
	Where this product has r	not been te	ested for	use in a particular tech	nique this does not			
	necessarily exclude its use in such procedures. Suggested working d							
	a guide only. It is recomr	er 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 a	and apopto	tic cells t	hrough mitochondrial f	unctionality.			
Test Principle	An early indication of ap	An early indication of apoptosis involves a collapse in the electrochemical gradient across						
	the mitochondrial membrane. Loss of mitochondrial membrane potential can be detected							
	by a unique fluorescent of	cationic dy	e known	as TMRE (tetramethyli	rhodamine ethyl ester),			
	that has been incorporat	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.							
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Reagents In The Kit	MitoPT TMRE Reagent -	- lyophilize	d - to ma	ke up 1mM stock				
	10x Assay Buffer, 125ml	(x2)						
	600uL 50mM carbonyl c	yanide m-c	hlorophe	nylhydrazone (CCCP)	concentrate in DMSO.			
Instructions For Use	Instructions for use can l	be found a	t <u>www.bio</u>	o-rad-antibodies.com/u	<u>ploads</u>			

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To find a b	atch/lot specifi	c datasheet f	or this produ	uct, please use our online 'M404870:220906' Printed on 29 Aug 2024	search tool at: I	pio-rad-antibodies.com/datasheets
North & South America	Tel: +1 800 265 73 Fax: +1 919 878 3 Email: antibody_s	376 3751 ales_us@bio-rao	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
Regulatory For research purpose			ch purpose:	s only.		
Health And SafetyMaterial Safety Datasheet documentation #20294 #10474 #Informationhttps://www.bio-rad-antibodies.com/SDS/ICT946MitoPT™ TMRE Reagent (20294)10X Assay Buffer (10474)CCCP Reagent (10479)						10479 available at:
Acknowl	Acknowledgements MitoPT is a trademark of Immunochemistry Technologies, LL					LC.
Guarante	90	Guarantee				
Storage		Buffer can be stored at 2-8°C gent from light at all times. ed at -20°C, protected from				

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