

Datasheet: 1351202

Description:	CYTOTRACK™ BLUE 403/454 CELL PROLIFERATION ASSAY KIT
Name:	CYTOTRACK™
Format:	403/454
Product Type:	Accessory Reagent
Quantity:	200 TESTS

Product Details

Applications	This product has been re derived from testing with communications from the information. For general <u>rad-antibodies.com/proto</u>	in our labo e originato protocol re	oratories, j rs. Please	peer-reviewed publicat refer to references inc	ions or personal dicated for further
	Flow Cytometry	-			1/500
	Where this product has r	not been te	ested for u	use in a particular tech	nique this does not
	necessarily exclude its us a guide only. It is recommon system using appropriate	nended the	at the use	r titrates the product for	
Product Information	CytoTrack cell proliferation assay kits are available in three distinct dyes for easy multicolor cell analysis: blue, green and red. Easily incorporate a cell tracking stain into your multicolor panel.				
	The proprietary chemistry divisions. Each dye is ce and a cell-retaining group by intracellular esterases intracellular proteins to c fluorescence intensity is	II permeat p. Upon er s and the c reate a sta	ble and co ntering a l cell-retaini able, cova	mprises a fluorophore ive cell, the fluorescen ng group of the fluorop lent bond. As the cells	, a fluorescence blocker ce blocker is cleaved bhore reacts with divide, the
Reagents In The Kit	CytoTrack Dye (4 vials, 5 DMSO (1 vial, 250 µl)	50 assays/	vial)		
Instructions For Use	Important: Thaw all com	iponents p	prior to use	9.	
	1. Prepare a 500x stock	solution. A	dd 50 µl ه	of DMSO and mix.	
	2. Protocol for use in c solution into 500 μl of me		-		Add 1 µl of stock

	Protocol for use with buffer (for products 1351202, 1351203 and 1351205) - Prepare a 1x working solution. Add 1 μ l of stock solution into 500 μ l of buffer, pH 7. Add 500 μ l of 1x solution to 1 x 10 ⁶ cells.
	3. Incubate at room temperature for 15 mins. Protect from light.
	4. Pellet the cells by centrifugation.
	5. Remove the supernatant and wash the cells using 3 ml of fresh prewarmed culture media.
	6. Resuspend the cell in 500 μ l of culture media.
	7. Place the cells in the appropriate conditions for cells proliferation.
	8. Harvest the cells and stain them for other markers if appropriate.
	9. Analyze or sort the cells using a flow cytometer or <u>S3e</u> cell sorter with the appropriate excitation and emission filters.
References	 Perrotta, C. <i>et al.</i> (2018) Nitric Oxide Generated by Tumor-Associated Macrophages Is Responsible for Cancer Resistance to Cisplatin and Correlated With Syntaxin 4 and Acid Sphingomyelinase Inhibition. <u>Front Immunol. 9: 1186.</u> Perrotta, C. <i>et al.</i> (2016) Climacostol reduces tumour progression in a mouse model of melanoma via the p53-dependent intrinsic apoptotic programme. <u>Sci Rep. 6: 27281.</u> Zecchini, S. <i>et al.</i> (2019) Autophagy controls neonatal myogenesis by regulating the GH-IGF1 system through a NFE2L2- and DDIT3-mediated mechanism. <u>Autophagy. 15 (1):</u> 58-77. Saito, Y. <i>et al.</i> (2020) Exercise enhances skeletal muscle regeneration by promoting senescence in fibro-adipogenic progenitors. <u>Nat Commun. 11 (1): 889.</u> Cappello, P. <i>et al.</i> (2016) Anti-α-enolase antibody limits the invasion of myeloid-derived suppressor cells and attenuates their restraining effector T cell response. <u>Oncoimmunology. 5 (5): e1112940.</u> Tario, J.J. <i>et al.</i> (2018) Monitoring Cell Proliferation by Dye Dilution: Considerations for Probe Selection. <u>Methods Mol Biol. 1678: 249-99.</u> Loef, E.J. <i>et al.</i> (2021) Live-Cell Microscopy Reveals That Human T Cells Primarily Respond Chemokinetically Within a CCL19 Gradient That Induces Chemotaxis in Dendritic Cells. <u>Front Immunol. 12: 628090.</u> Wang, X. <i>et al.</i> (2021) Activatable Biomineralized Nanoplatform Remodels the Intracellular Environment of Multidrug-Resistant Tumors for Enhanced Ferroptosis/Apoptosis Therapy. <u>Small.: e2102269.</u>
Storage	Store at -20°C only
	This product is photosensitive and should be protected from light

Health And SafetyMaterial Safety DaInformationhttps://www.bio-rad1351202RegulatoryFor research purport		https://w	ww.bio-rad-ar	e at:		
		arch purpose	s only			
North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751		Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50
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To find a b	atch/lot speci	fic datashee	et for this produ	uct, please use our online	search tool at: bi	o-rad-antibodies.com/datashe

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