

## Datasheet: ICT9152 BATCH NUMBER 166518

Description:	GREEN CATHEPSIN B KIT		
Name:	CATHEPSIN B		
Format:	Rhodamine 110-(RR)2		
Product Type:	Kits		
Quantity:	100 TESTS		

## **Product Details**

•	Yes • • s not been te	Νο	Not Determined	Suggested Dilution Refer to Instruction for			
Immunofluorescence Where this product ha	-						
Where this product ha	■ s not been te			Use			
•	s not been te						
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.							
Fluorophore Excitation Max (nm) Emission Max (nm)							
Rhodamine110-(RR)2	525		535				
<b>Green Cathepsin B Kit</b> enables the quantitation and monitoring of intracellular cathepsin activity over time in vitro. The Rhodamine 110 Cathepsin B substrate reagent is a non-cytotoxic and membrane permeant substrate that fluoresces green upon cleavage by active cathepsin enzymes.							
Rhodamine 110 Cathepsin B substrate utilizes the photostable green fluorophore, rhodamine 110. Rhodamine 110 cathepsin B substrate is comprised of rhodamine 110 coupled to two copies of the amino acid sequence, arginine-arginine (RR), which is th preferential target sequence for cathepsin B. When bi-substituted via amide linkage to cathepsin B target peptide sequences, rhodamine110 is nonfluorescent. Following enzymatic cleavage at one or both arginine (R) amide linkage sites, the mono and non-substituted rhodamine 110 fluorophores generate green fluorescence when excite 500 nm.							
	a guide only. It is reconsystem using appropriations appropriation of the system using appropriation of the system of	Where this product has not been tenecessarily exclude its use in such a guide only. It is recommended that system using appropriate negative/FluorophoreExcitation MRhodamine110-(RR)2525Green Cathepsin B Kit enables th activity over time in vitro. The Rhod non-cytotoxic and membrane permeactive cathepsin enzymes.Rhodamine 110 Cathepsin B substrinodamine 110. Rhodamine 110 car coupled to two copies of the amino preferential target sequence for cat cathepsin B target peptide sequence enzymatic cleavage at one or both non-substituted rhodamine 110 fluo	Where this product has not been tested for a necessarily exclude its use in such procedure a guide only. It is recommended that the use system using appropriate negative/positive of <b>FluorophoreFluorophoreExcitation Max (nm)</b> Rhodamine110-(RR)2525Green Cathepsin B Kit enables the quantit activity over time in vitro. The Rhodamine 11 non-cytotoxic and membrane permeant subtractive cathepsin enzymes.Rhodamine 110 Cathepsin B substrate utiliz rhodamine 110. Rhodamine 110 cathepsin E coupled to two copies of the amino acid seq preferential target sequence for cathepsin B cathepsin B target peptide sequences, rhod enzymatic cleavage at one or both arginine non-substituted rhodamine 110 fluorophores	Immunofluorescence •   Where this product has not been tested for use in a particular tech necessarily exclude its use in such procedures. Suggested workin a guide only. It is recommended that the user titrates the product f system using appropriate negative/positive controls.   Fluorophore Excitation Max (nm) Emission Max (nm)   Rhodamine110-(RR)2 525   535 535   Green Cathepsin B Kit enables the quantitation and monitoring or activity over time in vitro. The Rhodamine 110 Cathepsin B substrate non-cytotoxic and membrane permeant substrate that fluoresces or active cathepsin enzymes.   Rhodamine 110 Cathepsin B substrate utilizes the photostable gree rhodamine 110. Rhodamine 110 cathepsin B substrate is comprise coupled to two copies of the amino acid sequence, arginine-argini preferential target sequence for cathepsin B. When bi-substituted cathepsin B target peptide sequences, rhodamine110 is nonfluores enzymatic cleavage at one or both arginine (R) amide linkage site non-substituted rhodamine 110 fluorophores generate green fluores			

To use the Green Cathepsin B Assay, simply add the Rhodamine 110 Cathepsin B

	-	·	'M360122:191030'				
Email	+1 919 878 3751 I: antibody_sales_us@b		Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio		Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com bio-rad-antibodies.com/datasheet		
Regulatory	For res	earch purposes	s only				
Information	Rhodai 10X Ce	www.bio-rad-an mine 110-(RR)2 ellular Assay Bu st Stain (10476)	<u>152</u>				
Health And Sa	afety Materia	al Safety Datash	neet documentation #20	428 #20429	#10476 available at:		
Guarantee	Guarar	nteed until date	of expiry. Please see pr	oduct label.			
Storage	each u label. S use the	nopened compo Store the Rhoda Rhodamine11	onent) according to the a mine110-(RR) <sub>2</sub> substra	storage instru e at -20ºC. ( diately or alio	L. Store the unopened kit (and uctions on each component Once reconstituted in DMSO, quot and store at -20 <sup>o</sup> C for 6 thawing		
Instructions F	inouruo	Instructions for use can be found at <u>https://www.bio-rad-antibodies.com/static/uploads</u> /ifu/ict9151-2.pdf					
Reagents In T	10X Ce	f Rhodamine11 ellular Assay Bu st Stain, 1 ml	0-(RR) <sub>2</sub> substrate - lyop iffer, 60 ml	hilized			
	incubat membr permea state. I cathep fluores R110-( intrace while n no inte experir	te, and analyze ane and the me abilization steps f cathepsin enz sin B targeting cent upon excit RR)2 substrate llular location of egative cells wi rference from p nental condition sin activity will a	Because R110-(RR)2 is embranes of the internal are required. R110-(RF ymes are active, they w sequences and allow th ation. By varying the du , a picture can be obtain f cathepsin enzymatic a ill exhibit very low levels ro-cathepsins forms of to a stimulates cathepsin a	s cell-perme cellular orga (2 will enter (1) cleave off e rhodamine ration and co red of the rela- ctivity. Positiv of backgrou he enzymes ctivity, cells o	the cell in a non-fluorescent the two arginine-arginine 110 fluorophore to become oncentration of exposure to the ative abundance and ve cells will fluoresce green, nd green fluorescence. There i		

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