

## Datasheet: ICT9145 BATCH NUMBER 161953

Description:	PYROPTOSIS FAM CASPASE-1 KIT
Name:	PYROPTOSIS FAM CASPASE-1
Format:	FAM (Green Fluorescence)
Product Type:	Kits
Quantity:	25 - 50 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-rad-antibodies.com/protocols</u> .							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry	-			Refer to Instructions for Use			
	Immunofluorescence	•						
	Where this product hat necessarily exclude it a guide only. It is reco system using appropr	s use in such mmended th	n procedu at the use	res. Suggested workir er titrates the product	ng dilutions are given as			
Max Ex/Em	Fluorophore	Excitation I	Max (nm)	Emission Max (nm)				
	FAM	494		520				
Product Information	<b>Pyroptosis FAM Caspase-1 Kit</b> utilizes the popular FLICA technology to detect caspase-1 activation. This kit contain the caspase-1 inhibitor reagent YVAD-FMK, which has the preferred binding sequence for caspase-1, Tyr-Val-Ala-Asp (YVAD) ( <u>Chapman</u> , 1992). This preferred caspase-1 binding sequence is labeled with FAM a green fluorescent dye linked to a fluoromethyl ketone (FMK) reactive entity. Caspase-1 will not cleave the FLICA inhibitor probe; instead, it forms an irreversible covalent bond with the FMK group on the reagent and becomes inhibited from further enzymatic activity.							
Test Principle	To use FLICA, add directly to the cell culture medium, incubate, and wash. FLICA is cell-permeant and will efficiently diffuse in and out of all cells. If there is an active caspase-1 enzyme inside the cell, it will covalently bind with YVAD-FMK and retain the fluorescent signal within the cell. Unbound FLICA will diffuse out of the cell during the subsequent wash steps. Therefore, positive cells will retain a higher concentration of FLICA and fluoresce brighter than negative cells. There is no interference from pro-caspases or inactive forms of the enzymes. After labeling with FLICA, cells can be							

				Printed on 29 Aug 2024		
To find a b	atch/lot specif	ic datasheet for th	iis produ	uct, please use our online s 'M392024:211020'	earch tool at	t: bio-rad-antibodies.com/datasheet
lorth & South Imerica	Tel: +1 800 265 <sup>-</sup> Fax: +1 919 878 Email: antibody_		ldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-	Europe rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
Regulato	ry	For research p	urpose	s only		
Health A Informati	nd Safety on	available at:	<u>o-rad-ar</u> IK Rega 31) ⁄ash bu 3)	n <u>tibodies.com/SDS/ICT9′</u> aent (20279) ffer (20435)		#20435 #10498 #10476
Acknowl	edgements	FLICA™ is a tr	adema	rk of Immunochemistry T	echnologies	s, LLC.
Guarantee Guaranteed until date of expiry. Please see product label.						
Storage		each unopene label. Store the	d comp e Nigeri	onent) according to the s cin at -20ºC. Once recor	torage instr stituted the	L. Store the unopened kit (and ructions on each component Nigericin stock should be used ns. Avoid repeated freezing and
Instructio	ons For Use	Instructions for /ifu/ict9145-6.p		n be found at <u>https://ww</u>	w.bio-rad-ar	ntibodies.com/static/uploads
Reagents	s In The Kit	1 vial of FAM-\ 1 vial Nigericin 10X Wash Buf Fixative, 6 mL Hoechst Stain,	- lyoph fer, 15 r		b	
		7-AAD. Nuclea	r morpl ue DNA	hology may be concurrer -binding dye. Cells can b	ntly observe	d stains Propidium lodide and ed using Hoechst Stain (includec nrough a fluorescence

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