

## Datasheet: ICT9145 BATCH NUMBER 159526

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 ha	as not been t	ested for	use in a particular tec	hnique 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.							
Max Ex/Em	Fluorophore	Excitation I	Max (nm)	Emission Max (nm)				
	FAM	494	ļ	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 this	product, please use our online s 'M360117:191030'	search tool at:	: bio-rad-antibodies.com/datasheet		
orth & South merica	Tel: +1 800 265 7 Fax: +1 919 878 Email: antibody_		ide 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 purp	ooses only				
Health Ai Informati	nd Safety on	available at:	h buffer (20435)		#20435 #10498 #10476		
Acknowledgements FLICA <sup>™</sup> is a trademark of Immunochemistry Technologies, LLC.							
Guarante	96	Guaranteed until date of expiry. Please see product label.					
Storage		each unopened c label. Store the N	omponent) according to the igericin at -20ºC. Once reco	storage instrunction	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 us /ifu/ict9145-6.pdf	e can be found at <u>https://ww</u>	<u>w.bio-rad-an</u>	ntibodies.com/static/uploads		
Reagents	s In The Kit	1 vial of FAM-YVA 1 vial Nigericin - I 10X Wash Buffer, Fixative, 6 mL Hoechst Stain, 1	15 ml	d			
		7-AAD. Nuclear m	DNA-binding dye. Cells can	ntly observed	d using Hoechst Stain (included		

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