

## Datasheet: ICT9146 BATCH NUMBER 168634

Description:	PYROPTOSIS FAM CASPASE-1 KIT
Name:	PYROPTOSIS FAM CASPASE-1
Format:	FAM (Green Fluorescence)
Product Type:	Kits
Quantity:	100 - 200 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 has not been tested for use in a particular technique 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	Pyroptosis FAM Caspase-1 Kit utilizes the popular FLICA technology to detect										
	caspase-1 activation. FLICA probes are cell permeant non-cytotoxic. This kits con										
	caspase-1 inhibitor reagent YVAD-FMK, which has the preferred binding sequence caspase-1, Tyr-Val-Ala-Asp (YVAD) ( <u>Chapman, 1992</u> ). This preferred caspase-1 binding sequence										
sequence is labeled with either FAM a green fluorescent dye and linked to a f ketone (FMK) reactive entity. Caspase-1 will not cleave the FLICA inhibitor pr it forms an irreversible covalent bond with the FMK group on the reagent and inhibited from further enzymatic activity.											
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						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 counter-stained with other reagents and fixed or frozen. Cells labeled with YVAD-FMK can be counter-stained with reagents such as the red live/dead stains Propidium lodide and 7-AAD. Nuclear morphology may be concurrently observed using Hoechst 33342 (included in the kit), a blue DNA-binding dye. Cells can be viewed through a fluorescence microscope or flow cytometer.				
Reagents In The	4 vials of FAM-YVAD-FMK Reagent - lyophilized 1 vial Nigericin - lyophilized 10X Wash Buffer, 60 ml Fixative, 6 mL Hoechst Stain, 1 ml.				
Instructions For	Instructions for use can be found at <u>https://www.bio-rad-antibodies.com/static/uploads</u> /ifu/ict9145-6.pdf				
Storage	MULTIPLE STORAGE CONDITIONS APPLY ON ARRIVAL. Store the unopened kit (and each unopened component) according to the storage instructions on each component label. Store the Nigericin at -20°C. Once reconstituted the Nigericin stock should be used immediately or aliquoted and stored at -20°C for 12 months. Avoid repeated freezing and thawing.				
Guarantee	Guaranteed until date of expiry. Please see product label.				
Acknowledgeme	FLICA is a trademark of Immunochemistry Technologies, LLC.				
Health And Safe Information	<ul> <li>Material Safety Datasheet documentation #20279 #20431 #20435 #10498 #10476 available at: <u>https://www.bio-rad-antibodies.com/SDS/ICT9146</u></li> <li>FAM-YVAD-FMK Reagent (20279) Nigericin (20431) 10X Cellular Wash Buffer (20435)</li> <li>Fixative (10498)</li> <li>Hoechst Stain (10476)</li> </ul>				
Regulatory	For research purposes only.				
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M404818:220906'					
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