

Datasheet: ICT9145 BATCH NUMBER 166630

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 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		520				
Product Information	Pyroptosis FAM Caspase-1 Kit 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							

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Regulatory		For research purposes only.							
		FAM-YVAD- Nigericin (20 10X Cellular Fixative (104 Hoechst Sta	0431) ⁻ Wash buf 198)						
Health A Informati	nd Safety ion	Material Safety Datasheet documentation #20279 #20431 #20435 #10498 #10476 available at: https://www.bio-rad-antibodies.com/SDS/ICT9145							
Acknowl	edgements	FLICA is a trademark of Immunochemistry Technologies, LLC.							
Guarantee Guaranteed until date of expiry. Please see product label.									
Storage		each unope label. Store	ned compo the Nigerio	onent) according to the cin at -20°C. Once reco	storage instr nstituted the	L. Store the unopened kit (and ructions on each component Nigericin stock should be used is. Avoid repeated freezing and			
Instructio	ons For Use	Instructions /ifu/ict9145-6	n be found at <u>https://ww</u>	s://www.bio-rad-antibodies.com/static/uploads					
Reagent	s In The Kit	1 vial of FAM-YVAD-FMK Reagent - lyophilized 1 vial Nigericin - lyophilized 10X Wash Buffer, 15 ml Fixative, 6 mL Hoechst Stain, 1 ml.							
		7-AAD. Nuc	lear morph blue DNA	nology may be concurre -binding dye. Cells can	ntly observe	d stains Propidium Iodide and d using Hoechst Stain (included nrough a fluorescence			

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