

Datasheet: ICT9158

Description:	PYROPTOSIS 660 CASPASE-1 KIT
Name:	PYROPTOSIS 660 CASPASE-1
Format:	660 (Red Fluorescence)
Product Type:	Kits
Quantity:	25 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 www.bio-rad-antibodies.com/protocols.

	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 Max (nm)	Emission Max (nm)
	FLICA 660	660	685

Product InformationPyroptosis 660 Caspase-1 Kit utilizes the popular FLICA technology to detect caspase-1
activation. This kits contain the caspase-1 inhibitor reagent YVAD-FMK, which has the
preferred binding sequence for caspase-1, Tyr-Val-Ala-Asp (YVAD) (Chapman, 1992).
This preferred caspase-1 binding sequence is labeled with 660 a far red fluorescent dye
and 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 PrincipleTo 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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Regulato	ry	For research purpo	ses only				
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Health And SafetyMaterial Safety Datasheet documentation #20374 #10476 #20431 #20Informationavailable at:				0431 #20435 #10498			
Acknowle	edgements	FLICA is a tradema	ark of Immunochemistry Tec	hnologies, LLC			
Guarante	e	Guaranteed until date of expiry. Please see product label.					
Storage		each unopened co label. Store the Nig	mponent) according to the s jericin at -20ºC. Once recon	torage instruct stituted, the N	Store the unopened kit (and tions on each component igericin stock should be used Avoid repeated freezing and		
Instructio	ons For Use	Instructions for use /ifu/ict9158.pdf	can be found at <u>https://www</u>	w.bio-rad-antib	odies.com/static/uploads		
		1 vial Nigericin 10x Cellular Wash Fixative, 6 mL 1 vial Hoechst Stai					
Reagents	Reagents In The Kit 1 vial of 660-YVAD-FMK caspase-1 inhibitor - lyophilized						
		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.					
		counter-stained wit	h other reagents and fixed o	or frozen. Cells	labeled with YVAD-FMK		

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