

## Datasheet: ICT9158 BATCH NUMBER 162531

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<br/>activation. This kits contain the caspase-1 inhibitor reagent YVAD-FMK, which has the<br/>preferred binding sequence for caspase-1, Tyr-Val-Ala-Asp (YVAD) (Chapman, 1992).<br/>This preferred caspase-1 binding sequence is labeled with 660 a far red fluorescent dye<br/>and linked to a fluoromethyl ketone (FMK) reactive entity. Caspase-1 will not cleave the<br/>FLICA inhibitor probe; instead, it forms an irreversible covalent bond with the FMK group<br/>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<br/>cell-permeant and will efficiently diffuse in and out of all cells. If there is an active<br/>caspase-1 enzyme inside the cell, it will covalently bind with YVAD-FMK and retain the<br/>fluorescent signal within the cell. Unbound FLICA will diffuse out of the cell during the<br/>subsequent wash steps. Therefore, positive cells will retain a higher concentration of<br/>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 ca 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	<b>Kit</b> 1 vial of 660-YVAD-FMK caspase-1 inhibitor - lyophilized			
	1 vial Nigericin 10x Cellular Wash Buffer, 15mL Fixative, 6mL 1 vial Hoechst Stain, 1ml			
Instructions For	Use Instructions for use can be found at <u>https://www.bio-rad-antibodies.com/static/uploads</u> /ifu/ict9158.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 alliquoted and stored at -20°C for 12 months. Avoid repeated freezing and thawing.			
Guarantee	Guaranteed until date of expiry. Please see product label.			
Acknowledgeme	ents FLICA is a trademark of Immunochemistry Technologies, LLC.			
Health And Safe	Material Safety Datasheet documentation #20374 #10476 #20431 #20435 #10498 available at: <u>https://www.bio-rad-antibodies.com/SDS/ICT9158</u> 660-YVAD-FMK caspase-1 inhibitor reagent (20374) Hoechst Stain (10476) Nigericin (20431) 10X Cellular Wash Buffer (20435) Fixative (10498)			
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 'M392025:211020'			
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