

Datasheet: ICT9158 BATCH NUMBER 159471

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 <u>www.bio-</u>
	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 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 Ki	t 1 vial of 660-YVAD-FN	/K caspase-1 inhibitor - lyophilized		
	1 vial Nigericin 10x Cellular Wash Buf Fixative, 6 mL 1 vial Hoechst Stain, 1			
Instructions For Us	Instructions for use ca /ifu/ict9158.pdf	n be found at <u>https://www.bio-rad-ant</u>	tibodies.com/static/uploads	
Storage	each unopened compo label. Store the Nigerio	CONDITIONS APPLY ON ARRIVAL onent) according to the storage instru- cin at -20°C. Once reconstituted, the ted and stored at -20°C for 12 month	uctions on each component Nigericin stock should be used	
Guarantee	Guaranteed until date	of expiry. Please see product label.		
Acknowledgements	FLICA is a trademark	of Immunochemistry Technologies, L	LC.	
Health And Safety Information	available at: <u>https://www.bio-rad-an</u>		#20431 #20435 #10498	
Regulatory	For research purposes	sonly		
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		Printed on 17 Apr 2024		

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