

Datasheet: ICT9158 BATCH NUMBER 164866

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	Kit 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			
	worldwide Tel: +44 (0)1865 852 700 Europe Tel: +49 (0) 89 8090 95 21 919 878 3751 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50 ntibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_uk@bio-rad.com			
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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