

## Datasheet: ICT9158

**BATCH NUMBER 171252**

|                      |                              |
|----------------------|------------------------------|
| <b>Description:</b>  | PYROPTOSIS 660 CASPASE-1 KIT |
| <b>Name:</b>         | PYROPTOSIS 660 CASPASE-1     |
| <b>Format:</b>       | 660 (Red Fluorescence)       |
| <b>Product Type:</b> | Kits                         |
| <b>Quantity:</b>     | 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](http://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 Information** **Pyroptosis 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 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 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 Iodide 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.

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**Reagents In The Kit** 1 vial of 660-YVAD-FMK caspase-1 inhibitor - lyophilized

1 vial Nigericin  
10x Cellular Wash Buffer, 15 mL  
Fixative, 6 mL  
1 vial Hoechst Stain, 1 ml

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**Instructions For Use** Instructions for use can be found at <https://www.bio-rad-antibodies.com/static/uploads/ifu/ict9158.pdf>

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**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 aliquoted and stored at -20°C for 12 months. Avoid repeated freezing and thawing.

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**Guarantee** Guaranteed until date of expiry. Please see product label.

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**Acknowledgements** FLICA is a trademark of Immunochemistry Technologies, LLC.

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**Health And Safety Information** Material Safety Datasheet documentation #20374 #10476 #20431 #20435 #10498 available at:  
<https://www.bio-rad-antibodies.com/SDS/ICT9158>

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**Regulatory** For research purposes only

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**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
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