

## Datasheet: ICT098

**BATCH NUMBER 156555**

<b>Description:</b>	FAM FLICA™ CASPASE-1 KIT
<b>Name:</b>	CASPASE-1
<b>Format:</b>	FAM (Green Fluorescence)
<b>Product Type:</b>	Kits
<b>Quantity:</b>	100 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	▪			
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)
	FAM	494	520

**Product Information** The FAM FLICA Caspase-1 Kit uses a target sequence (YVAD) sandwiched between a green fluorescent label, carboxyfluorescein (FAM), and a fluoromethylketone (FMK) to make a quick and flexible method to analyze active caspases in apoptotic cells.

### Test Principle

Caspase FLICA Kits measure apoptosis by detecting active caspases in whole, living cells. These kits do not work by using antibodies or as an ELISA. Instead, their methodology is based on a unique cell-permeable and non-cytotoxic reagent called the Fluorochrome Inhibitor of Caspases (FLICA). The FLICA reagent contains a caspase inhibitor sequence linked to a green (Carboxyfluorescein, FAM) fluorescent probe.

The Caspase FLICA Kits are suitable for cells in suspension and adherent cells from many species including mammalian, insect and yeast. Different cell types, e.g. HeLa, primary neurons, macrophages and lymphocytes have also been successfully studied with these kits.

This kit can be used with a flow cytometer, fluorescence microscope or a fluorescence plate reader using black microtitre plates.

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**Reagents In The Kit** 4 vials of FAM-YVAD-FMK FLICA Reagent - lyophilized  
10x Apoptosis Wash Buffer, 60 mL  
Fixative, 6 mL  
Propidium Iodide, 1 mL  
Hoechst 33342, 1 mL

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**Instructions For Use** Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/ICT098.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/ICT098.pdf)

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**References**

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4. Hussen, J. *et al.* (2012) Inflammasome activation in bovine monocytes by extracellular ATP does not require the purinergic receptor P2X7. [Dev Comp Immunol. 38 \(2\): 312-20.](#)
5. Wang, Y. *et al.* (2012) A comparative study of stress-mediated immunological functions with the adjuvanticity of alum. [J Biol Chem. 287 \(21\): 17152-60.](#)
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7. Wree, A. *et al.* (2014) NLRP3 inflammasome activation results in hepatocyte pyroptosis, liver inflammation, and fibrosis in mice. [Hepatology. 59 \(3\): 898-910.](#)
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**Storage** Store the unopened kit and each unopened component at +4°C until the expiration date. Once reconstituted with DMSO, use FLICA reagent immediately, or store at -20°C for 6 months protected from light and thawed no more than twice during that time.

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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 #20279 #10471 #10498 #10476 #10477 available at:

<https://www.bio-rad-antibodies.com/SDS/ICT098>

FAM-YVAD-FMK FLICA Reagent (20279)

10x Apoptosis Wash Buffer (10471)

Fixative (10498)

Hoechst 33342 (10476)

Propidium Iodide (10477)

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**Regulatory**

For research purposes only

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**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@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](https://www.bio-rad-antibodies.com/datasheets)

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