

## Datasheet: ICT092

**BATCH NUMBER 170167**

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | FAM FLICA™ POLY CASPASE KIT |
| <b>Name:</b>         | POLY CASPASE                |
| <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 Poly Caspase Kit** uses a quick and easy method to analyze active caspases in apoptotic cells. This FLICA reagent binds the following activated caspases: caspase 1, caspase 3, caspase 4, caspase 5, caspase 6, caspase 7, caspase 8 and caspase 9. It can also be used as a generic probe for the detection of most caspases.

### 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-VAD-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/ICT092.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/ICT092.pdf).

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**References**

1. Brugnon, F. *et al.* (2010) Apoptosis and meiotic segregation in ejaculated sperm from Robertsonian translocation carrier patients. [Hum Reprod. 25 \(7\): 1631-42.](#)
2. Peppas, D. *et al.* (2013) Up-regulation of a death receptor renders antiviral T cells susceptible to NK cell-mediated deletion. [J Exp Med. 210 \(1\): 99-114.](#)
3. Chua, M.L. *et al.* (2014) DNA double-strand break repair and induction of apoptosis in *ex vivo* irradiated blood lymphocytes in relation to late normal tissue reactions following breast radiotherapy. [Radiat Environ Biophys. 53 \(2\): 355-64.](#)
4. Nebbia, G. *et al.* (2012) Upregulation of the Tim-3/galectin-9 pathway of T cell exhaustion in chronic hepatitis B virus infection. [PLoS One. 7 \(10\): e47648.](#)

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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 #20286 #10471 #10498 #10476 #10477 available at:  
<https://www.bio-rad-antibodies.com/SDS/ICT092>

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**Regulatory** For research purposes only.

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## Related Products

### Recommended Useful Reagents

[FAM FLICA™ CASPASE-3/7 KIT \(ICT094\)](#)

[FAM FLICA™ CASPASE-1 KIT \(ICT098\)](#)

[FAM FLICA™ CASPASE-6 KIT \(ICT096\)](#)

[FAM FLICA™ CASPASE-8 KIT \(ICT910\)](#)

[FAM FLICA™ CASPASE-9 KIT \(ICT913\)](#)

**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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