Datasheet: ICT091

BATCH NUMBER 174948

Description:	FAM FLICA™ POLY CASPASE KIT
Name:	POLY CASPASE
Format:	FAM (Green 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 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.
Reagents In The Kit	1 vial of FAM-VAD-FMK FLICA Reagent - lyophilized 10x Apoptosis Wash Buffer, 15 mL Fixative, 6 mL Propidium Iodide, 1 mL Hoechst 33342, 1 mL
Instructions For Use	Instructions for use can be found at www.bio-rad-antibodies.com/uploads/IFU/ICT091.pdf
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. Peppa, 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.
Storage	This product is shipped at ambient temperature. Store the unopened kit and each unopened component at +4^{o}C until the expiration date. Once reconstituted with DMSO, use FLICA reagent immediately, or store at -20^{o}C for 6 months protected from light and thawed no more than twice during that time.
Guarantee	Guaranteed until date of expiry. Please see product label.
Acknowledgements	FLICA is a trademark of Immunochemistry Technologies, LLC.
Health And Safety Information	Material Safety Datasheet documentation #20286 #10471 #10498 #10476 #10477 available at: https://www.bio-rad-antibodies.com/SDS/ICT091
Licensed Use	Please see PDF datasheet for full Health & Safety information.
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

FAM FLICA™ POLY CASPASE KIT (ICT092)
FAM FLICA™ CASPASE-3/7 KIT (ICT093)
FAM FLICA™ CASPASE-1 KIT (ICT097)
FAM FLICA™ CASPASE-6 KIT (ICT095)
FAM FLICA™ CASPASE-8 KIT (ICT099)
FAM FLICA™ CASPASE-9 KIT (ICT912)

Product inquiries: 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

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