Datasheet: ICT936

BATCH NUMBER 174827

Description:	MAGIC RED™ CASPASE-3/7 KIT
Name:	CASPASE-3/7
Format:	MAGIC RED™ (Red Fluorescence)
Product Type:	Kits
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
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.

Product Information

The Magic Red Caspase-3/7 kit uses a quick and easy method to analyze intracellular active caspases in apoptotic cells.

Test Principle

Caspase Magic Red 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 cell-permeable and non-cytotoxic reagent which is cleaved in the presence of caspases to produce a fluorescent product. The Magic Red reagent contains a caspase inhibitor sequence $(DEVD)_2$ linked to a red (Cresyl Violet) fluorescent probe.

The Caspase Magic Red kits are suitable for cells in suspension and adherent cells from many species including mammalian, insect and yeast. Different cell types, e.g. Jurkat, HL-60, THP-1, fibroblasts, UMUC-3, MCF-7 and U937 cells have also been successfully studied with these kits.

This kit can be used in fluorescence microscopy or with fluorescence plate readers using black microtitre plates.

Reagents In The Kit

Magic Red Substrate MR-$(DEVD)_2$, 100 Tests - lyophilized

	Hoechst 33342, 1 mL Acridine Orange, 0.5 mL.
Instructions For Use	Instructions for use can be found at www.bio-rad-antibodies.com/uploads/IFU/ICT936.pdf
References	1. Wei, Z. *et al.* (2011) Notch activation enhances the microglia-mediated inflammatory response associated with focal cerebral ischemia. Stroke. 42 (9): 2589-94. 2. Shibata, Y. *et al.* (2016) Controlled in-cell release of caspase from photodegradable nanoparticles using the PARCEL method Applied Spectroscopy Reviews. 51 (7-9): 669-77. 3. McHugh, B.J. *et al.* (2019) Cathelicidin is a "fire alarm", generating protective NLRP3-dependent airway epithelial cell inflammatory responses during infection with *Pseudomonas aeruginosa*.. PLoS Pathog. 15 (4): e1007694. 4. Yu, C. *et al.* (2024) Laminin 111 triggers cell quiescence and long-term survival by inducing IQGAP1-mediated cytosolic scaffolding of ERK and BAD inactivation bioRχiv 10 Aug [Epub ahead of print].
Storage	This product is shipped at ambient temperature. Store the unopened kit and each unopened component at +4°C until the expiration date. Once reconstituted with DMSO, use Magic Red reagent immediately, or store at -20°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	Magic Red is a trademark of Immunochemistry Technologies, LLC.
Health And Safety Information	Material Safety Datasheet documentation #20262 #10476 #10478 available at: https://www.bio-rad-antibodies.com/SDS/ICT936
Regulatory	For research purposes only.

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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