

## Datasheet: ICT935

<b>Description:</b>	MAGIC RED™ CASPASE-3/7 KIT
<b>Name:</b>	CASPASE-3/7
<b>Format:</b>	MAGIC RED™ (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
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)<sub>2</sub> 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)<sub>2</sub>, 25 Tests - lyophilized  
Hoechst 33342, 1 mL  
Acridine Orange, 0.5 mL

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**Instructions For Use** Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/ICT935.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/ICT935.pdf)

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**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 [bioRxiv 10 Aug \[Epub ahead of print\].](#)

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**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.

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

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**Acknowledgements** Magic Red is a trademark of Immunochemistry Technologies, LLC.

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**Health And Safety Information** Material Safety Datasheet documentation #20262 #10476 #10478 available at: <https://www.bio-rad-antibodies.com/SDS/ICT935>  
Magic Red Substrate MR-(DEVD)<sub>2</sub> (20262)  
Hoechst 33342 (10476)  
Acridine Orange (10478)

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**Regulatory** For research purposes only.

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## Related Products

### Recommended Useful Reagents

[MAGIC RED™ CASPASE-3/7 KIT \(ICT936\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M439385:250523'

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