

# CalRexin™:568



enhancing life by focussing on cell death

## CalRexin™:568: used for the detection of apoptosis

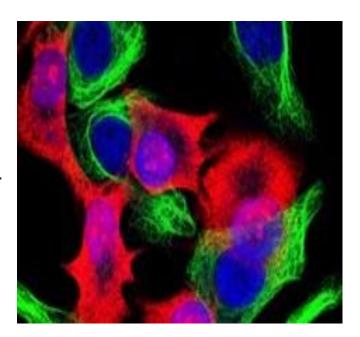
## CalRexin™ research reagents

For use in live cell assays to study pre-apoptotic stress and events leading to apoptosis.

# Image showing CalRexin™:568 accumulating in dying cells as seen with confocal microscopy.

- · MG63 cancer cells treated with a cytotoxin.
- Green cells express tubulin and are intact living cells that exclude CalRexin™:568.
- Red cells are dying, tubulin is degraded and CalRexin™:568 accumulates.

Image taken from Furness et al, 2016.



#### features

- · Stable product equating to long shelf life
- · Targets a new event of PCD
- Increased fidelity (accuracy and specificity)
- · Simple to use
- Degree of labelling >4.5 resulting in extensive range of fluorescence signal

#### in use

format 1 mg/mL

quantity 200 µg in 200 µL PBS

specificity CALCITONIN RECEPTOR

storage 12 months at 4-6°C

#### product number

CalRexin™:568

#### description

Monoclonal antibody: fluorophore conjugate

#### order

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datasheet CalRexin™:568

description MOUSE ANTI-HUMAN CALCITONIN RECEPTOR

**specificity** CALCITONIN RECEPTOR

**format** Purified, 1 mg/mL in phosphate buffered saline (PBS), sterile filtered.

**product type** Monoclonal antibody mAb2C4 conjugated with TFP esterAZ568

clone 46/08-2C4-2-2-4

antibody The name given to mAb2C4 is CalRexin™

isotype lgG1

quantity 200 µg in 200 µL PBS

### product details

#### applications

This product has been reported to work with the following applications. This information is derived from testing within our laboratories, peer-reviewed publications, and personal communications from the originators. Please refer to references indicated for further information.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			1:100-1:200
Immunocytochemistry – Live*	•			2.0 μL/mL
Immunohistology - Paraffin		•		
Immunohistology - Resin		•		
ELISA		•		
Immunoprecipitation		•		
Immunoblotting		•		

Where CalRexin™:568 has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the reagent for use in their own system using appropriate negative/positive controls.

target species Human cells and cell lines

species cross reactivity Not tested

CalRexin<sup>TM</sup>:568 conjugate in phosphate buffered saline (PBS), sterile filtered. product form

preparation Conjugation to antibody as recommended by Fluoroprobes (Arizona, US), the manufacturer of TFP

esterAZ568. Purified by peptide affinity and size exclusion chromatography.

preservative stabilisers

N/A

approx. protein concentrations

IgG concentration 1.0 mg/mL

immunogen Synthetic peptide derived from sequence situated in the N-terminal domain of human

calcitonin receptor.

external human protein id: database links

NP\_001733.1

CalRexinTM:568 recognises and binds an epitope within the N-terminal domain that is common to both specificity

C1a and C1b isoforms of the human calcitonin receptor, a membrane protein with seven transmembrane domains that is coupled to G protein messenger systems. The calcitonin receptor has been identified in a broad range of tissues throughout the life cycle of an organism as well as in diseased, stressed and

damaged tissues. CalRexin<sup>TM</sup>:568 is accumulated into apoptotic cells.

histology Immunocytochemistry: MG63 cells treated with staurosporine accumulate CalRexin<sup>TM</sup>:568 in the

lysosomes during apoptosis. Other cell types respond in a similar way (refer to reference below).

Storage for 12 months at 4-6°C after filter sterilization. Do not freeze. Prepare working dilutions on day of use. storage

shelf-life Storage at 4-6°C for 12 months.

health and safety Refer to safety information in regard to AZ568 (Fluoroprobes, AZ, US).

reference Furness SGB, Hare DL, Kourakis A, Turnley AM, Wookey PJ. A novel ligand of calcitonin receptor reveals a potential for mAb2C4

new sensor that modulates programmed cell death. Cell Death Discovery 2016 Oct 10;2 16062.

<sup>\*</sup>Note that cells undergoing programmed cell death must be unfixed during the stain but may be fixed afterwards.