

## TECHNICAL DATA SHEET

### CyFlow™ DDIT4L Purified Anti-Hu; Clone DDIT-03

**REF** AN275508

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |  |
|------------------------------------|--|
| <b>Antigen</b>                     | DDIT4L   |
| <b>Alternative Names</b>           | DNA-damage-inducible transcript 4 like, RTP801L, REDD-2            |
| <b>Clone</b>                       | DDIT-03  |
| <b>Clonality</b>                   | monoclonal   |
| <b>Format</b>                      | Purified   |
| <b>Host / Isotype</b>              | Mouse / IgG1   |
| <b>Species Reactivity</b>          | Human  |
| <b>Negative Species Reactivity</b> | —  |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ]   |
| <b>Immunogen</b>                   | N-terminal recombinant fragment of human DDIT4L (amino acids 2-98) |

### Specificity

The mouse monoclonal antibody DDIT-03 recognizes DDIT4L antigen, which belongs to stress-induced proteins involved in mediation of cell death.

#### Contact Information:

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## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH  $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

|                  |   |
|------------------|---|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | Do not use after expiration date stamped on vial label.                       |

## Background Information

DDIT4L (DNA-damage-inducible transcript 4-like), also known as REDD2 (regulated in development and DNA damage response 2) or RTP801L is a stress-induced protein, which was shown to mediate monocyte cell death through a reduction in thioredoxin-1 expression, and is highly expressed in atherosclerotic lesions. Stimulation of DDIT4L expression in macrophages increases oxidized LDL-induced macrophage death.

## References

- Cuaz-Pérolin C, Furman C, Larigauderie G, Legedz L, Lasselin C, Copin C, Jaye M, Searfoss G, Yu KT, Duverger N, Negre-Salvayre A, Fruchart JC, Rouis M: REDD2 gene is upregulated by modified LDL or hypoxia and mediates human macrophage cell death. *Arterioscler Thromb Vasc Biol.* 2004 Oct; 24(10):1830-5. < PMID: 15308555 >
- Corradetti MN, Inoki K, Guan KL: The stress-induced proteins RTP801 and RTP801L are negative regulators of the mammalian target of rapamycin pathway. *J Biol Chem.* 2005 Mar 18; 280(11):9769-72. < PMID: 15632201 >
- Imen JS, Billiet L, Cuaz-Pérolin C, Michaud N, Rouis M: The regulated in development and DNA damage response 2 (REDD2) gene mediates human monocyte cell death through a reduction in thioredoxin-1 expression. *Free Radic Biol Med.* 2009 May 15; 46(10):1404-10. < PMID: 19268525 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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