

## TECHNICAL DATA SHEET

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

**REF** AZ666112

**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>	PE
<b>Host / Isotype</b>	Mouse / IgG1
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity [Concentration]</b>	0.1 mg [ 0.1 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:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing 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 >

---

### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

---

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

---

---

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)