

## TECHNICAL DATA SHEET

### CyFlow™ CD154 FITC Anti-Ms; Clone MR-1

**REF** CR720552

**For Research Use Only.**

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

### Specifications

<b>Antigen</b>	CD154
<b>Alternative Names</b>	CD40L, gp39, TRAP-1, T-BAM, IMD3, TNFSF5
<b>Clone</b>	MR-1
<b>Clonality</b>	monoclonal
<b>Format</b>	FITC
<b>Host / Isotype</b>	Hamster / IgG1
<b>Species Reactivity</b>	Mouse
<b>Negative Species Reactivity</b>	—
<b>Quantity [Concentration]</b>	0.1 mg [ 0.5 mg/ml ]
<b>Immunogen</b>	Activated mouse Th1 clone D1.6

### Specificity

The Armenian hamster monoclonal antibody MR-1 recognizes mouse CD154 / CD40L antigen, a 39 kDa cell surface type II glycoprotein expressed predominantly on activated CD4+ lymphocytes.

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## 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 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

CD154 / CD40L (CD40 ligand) is a member of the tumor necrosis factor family, and is expressed primarily on activated CD4+ lymphocytes, but also on mast cells, basophils, eosinophils and human dendritic cells. Its counter-receptor CD40 is expressed on antigen presenting cells, including dendritic cells, macrophages, and B cells, and also on fibroblasts. Triggering of CD40 by CD40L causes maturation of dendritic cells and upregulation of antigen presentation in functions of the MHC and costimulatory molecules. CD40L also functions as a direct stimulating factor for T cells. CD40L plays also roles e.g. in antibody class switching and modulation of apoptosis in the germinal center.

## References

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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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