

TECHNICAL DATA SHEET

CyFlow™ CD154 Low Endotoxin Anti-Ms; Clone MR-1

REF AC207961

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD154
Alternative Names	CD40L, gp39, TRAP-1, T-BAM, IMD3, TNFSF5
Clone	MR-1
Clonality	monoclonal
Format	Low Endotoxin
Host / Isotype	Hamster / IgG1
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	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

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

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry
- Immunocytochemistry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH $\approx$ 7.4; 0.2 μ m filter sterilized. Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	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.

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