EXBIO Antibodies

PRODUCT DATA SHEET

12-629-C100

Monoclonal Antibody to CD154 / CD40L (mouse) Low Endotoxin (0.1 mg)

Clone:	MR-1
Isotype:	Hamster IgG1
Specificity:	The Armenian hamster monoclonal antibody MR-1 detects mouse CD154 / CD40L (CD40-ligand), a 39 kDa cell surface glycoprotein expressed predominantly on activated CD4+ lymphocytes.
Immunogen:	Activated mouse Th1 clone D1.6
Species Reactivity:	Mouse
Application:	Flow Cytometry Recommended dilution:4 µg/ml Positive control:6-8 hour activated mouse splenocytes Immunoprecipitation Immunohistochemistry Immunocytochemistry Functional Application Blocking T cell costimulation in vivo.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein G
Concentration:	1 mg/ml
Storage Buffer:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz

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*And many other.

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