EXBIO Antibodies

PRODUCT DATA SHEET

11-629-C100

Monoclonal Antibody to CD154 / CD40L (mouse) Purified Antibody (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 A
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
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.

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*And many other.

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