

## Monoclonal Anti-human CD40L /CD154

**Product reference: DDX0141** 

## **Description**

CD40 ligand also known as TRAP, gp39, TNFSF5, is a 261 amino acid type II transmembrane glycoprotein belonging to the TNF superfamily. CD40 ligand is expressed predominantly on activated CD4+ T cells and is also found on other cell types, including NK cells, mast cells, basophils and eosinophils. Genetic alterations in the CD40L results in the absence of a functional molecule on activated T cells and are responsible for the occurrence of X-linked hyper-IgM syndrome. LL2 clone was produced by immunizing mice with L cells transfected with human CD40L. Addition of anti-CD40L mAb LL2 enhanced proliferation of MT9 and FS35 T cell lines in the presence of IL-2 and increased the secretion of IFN-γ by MT9 cells and of IL-10, IL-5 and IL-4 by FS35 cells cultured with IL-2. LL2 completely blocks CD40-CD40L interaction, can mimic T cell-induced CD40 triggering on B cells and activates T cells.

(Hermann P et al, 1995, EJI, 25 (10), 2972-2977; Razanajaona D et al, 1996, J Immunol., 157(4):1492-8; Fournier N et al, 2000 J Immunol., 165: 1197–1209; Henn et al, 2001, Blood, 98 (4), 1047-1054).

Clone: LL2 **Species:** mouse

**Specificity:** human CD40L

Immunogen: Chimeric human CD40L-Ig transfected COS7 cells

**Species cross-reactivity: Isotype:** IgG1

**Purification:** QMA Hyper D ion exchange chromatography

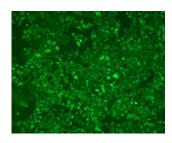
Formulation/size: **Purified**: 100  $\mu$ g in 200  $\mu$ l / 50  $\mu$ g in 100  $\mu$ l Tris-NaCl pH 8

**Coupled**: 100 µg in 200 µl / 50 µg in 100 µl PBS 50% glycerol

**Available formats:** (coupled formats available on request)

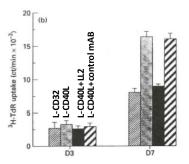
Reference N°		Format	Application togted
50 μg	100 μg	Format	Application tested
DDX0141P-50	DDX0141P-100	purified	Flow cytometry, IF, T cell activation, block CD40-
			CD40L interaction,
			ELISA for sCD154 detection
DDX0141A647-50	DDX0141A647-100	Alexafluor®647	IF, flow cytometry

## **Applications tested**: IF, Flow cytometry, CD40-CD40L blocking



LL2 CD40L L6.034 103 102 101

LL2 inhibits the stimulatory effect of the CD40L-transfected L cells on synovial fibroblasts Rissoan et al, Clin Exp Immunol. 1996, 106(3):481-90.



IF staining of hCD40L-transfected cells with LL2 clone

FACS staining of hCD40L-transfected L cells with LL2 clone

\*This monoclonal antibody may be used between 5-20 µg/ml. **Usage recommendation:** 

\*Optimal dilution should be determined by each laboratory for each

application.

\*Coupled antibody: to maintain RT before use.

Aliquot storage conditions: -20°C. KEEP CONTENTS STERILE: no preservative.

> Purified antibodies: avoid repeated freeze/thaw cycles. Coupled antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only

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