



Product Information Sheet

Polyclonal Anti-CD40L (*Magnetic Bead Conjugate*)

Catalogue No. PA1020-M

Lot No. 09J02

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

ImmunoPrecipitation (IP)

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human CD40L, different from the relative mouse sequence by three amino acids, rat sequence by four amino acids.

Purity

Immunogen affinity purified.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

CD40 ligand(CD40L) is a type II membrane protein of 261 amino acids on activated T cells that induces B cell proliferation and immunoglobulin secretion. It has homology with tumour necrosis factor-alpha and -beta, and has important functions in B-cell activation and differentiation. Human CD40L with 5 exons, is mapped to the proximal region of the mouse X chromosome on Xq26.3-27.1, and can be detected on T cells but is absent from B cells and monocytes. Since CD40L is expressed on platelets and released from them on activation, its predictive value as a marker for clinical outcome and the therapeutic effect of inhibition of glycoprotein IIb /IIIa receptor in patients with acute coronary syndromes was investigated. The soluble CD40L may be involved in the process of restenosis and that it exerts its effect by triggering a complex group of inflammatory reactions on endothelial and mononuclear cells. CD40L plays a central role in the pathophysiology of acute coronary syndromes, and has a role in the pathogenesis of coronary artery lesions.

REFERENCE

1. Allen, R.C.; Armitage, R.J.; Conley, M.E.; Rosenblatt, H.; Jenkins, N.A.; Copeland, N.G.; Bedell, M.A.; Edelhoff, S.; Disteche, C.M.; Simoneaux, D.K.; Fanslow, W.C.; Belmont, J.; Spriggs, M.K.: CD40 ligand gene defects responsible for X-linked hyper-IgM syndrome. *Science* 259: 990-993, 1993.
2. Cipollone, F.; Ferri, C.; Desideri, G.; Paloscia, L.; Materazzo, G.; Mascellanti, M.; Fazio, M.; Iezzi, A.; Cuccurullo, C.; Pini, B.; Bucci, M.; Santucci, A.; Cuccurullo, F.; Mezzetti, A.: Preprocedural level of soluble CD40L is predictive of enhanced inflammatory response and restenosis after coronary angioplasty. *Circulation* 108: 2776-2782, 2003.

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