



Product Information Sheet

Polyclonal Anti-CD40L

Catalogue No. PA1020

Lot No. 09J02

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

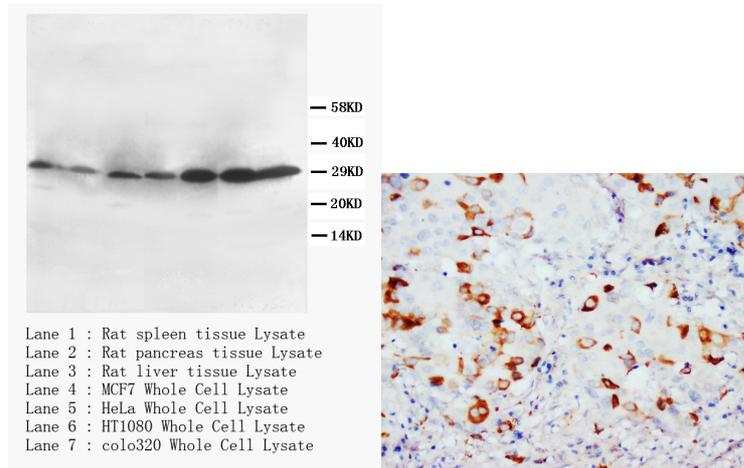
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunocytochemistry



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.

Application

| | Concentration | Tested Species | Concluded Species | Antigen Retrieval |
|-------|---------------|----------------|-------------------|-------------------|
| WB | 1µg/ml | Hu, Rat | Ms | - |
| IHC-P | 1µg/ml | Hu, Rat | Ms | By Heat |
| IHC-F | - | - | - | - |
| ICC | 1µg/ml | Hu, Rat | Ms | - |

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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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.; Distech, 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.