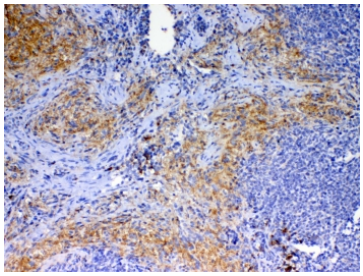
# Cd40l Antibody (RQ4071)

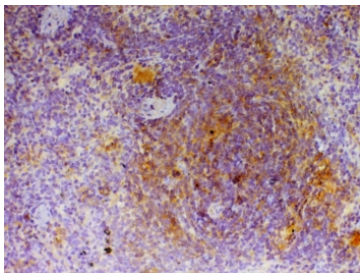
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ4071 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

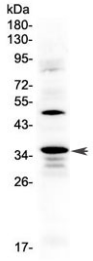
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | P27548 |
| **Localization** | Cytoplasmic, membranous |
| **Applications** | Western Blot: 0.5-1ug/ml<br>IHC (FFPE): 1-2ug/ml<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This Cd40l antibody is available for research use only. |



IHC testing of FFPE mouse spleen tissue with Cd40l antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE rat spleen tissue with Cd40l antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.




Western blot testing of rat spleen lysate with Cd40l antibody at 0.5ug/ml. Expected molecular weight: 29-39 kDa (depending on glycosylation level) or ~18 kDa (soluble form).

## Description

CD40 ligand (CD40L), also called TRAP and CD154, 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.

CD40L, also known as CD154 and TNFSF5, mediates immune costimulatory signaling through CD40; additional information on this pathway and target biology is available on the CD40 Ligand Antibody page.

## Application Notes

Optimal dilution of the Cd40l antibody should be determined by the researcher.

## Immunogen

A recombinant mouse partial protein corresponding to amino acids E107-L260 was used as the immunogen for the Cd40l antibody.

## Storage

After reconstitution, the Cd40l antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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