Anti-CD40L (Ruplizumab), Human IgG1 Antibody

**CATALOG NO:** A1094-200  
**ALTERNATIVE NAMES:** CD40 ligand; tumour necrosis factor ligand superfamily member 5; TNFSF5; CD154; tumour necrosis factor related activation protein; TRAP  
**AMOUNT:** 200 µg  
**IMMUNOGEN:** Human CD40L  
**ISOTYPE / FORMAT:** Human IgG1, kappa  
**CLONALITY:** Monoclonal  
**CLONE:** hu5c8  
**SPECIES REACTIVITY:** Human  
**FORM:** Liquid  
**SPECIFICITY:** The antibody binds to CD40L with an IC50 of 0.845 µg/ml  
**PURIFICATION:** Affinity purified using Protein A  
**FORMULATION:** Supplied in PBS with preservative (0.02% Proclin 300)  
**STORAGE CONDITIONS:** Store at 4°C for upto 3 months. For long term storage, aliquot and freeze at -20°C. Avoid repeated freeze/thaw cycles.  
**DESCRIPTION:** Recombinant monoclonal antibody to CD40L. Manufactured using recombinant technology with variable regions (i.e. specificity) from the hybridoma hu5c8 (Ruplizumab). The antibody binds specifically to CD40L, a surface receptor expressed on activated T cells which acts as a costimulatory molecule to trigger immune responses. The antibody neutralizes CD40L function, as it blocks the interaction between CD40 and CD40L. When injected into cynomolgus monkeys, the antibody was found to have a T1/2 of 531 ± 155 hours.  
**APPLICATION:** Block; FC  

Western Blot using anti-OX40L antibody: Rat spleen (lane 1), rat muscle (lane 2), rat bladder (lane 3), human breast tumour (lane 4) and human thyroid tumour (lane 5) samples were resolved on a 10% SDS PAGE gel and blots probed with at 1 µg/ml before being detected by a secondary antibody. The expected band size (29 kDa) is seen in the human-derived samples, as well as bands corresponding to dimers and other multimers.

Flow-cytometry using the anti-CD40L research biosimilar antibody Ruplizumab: Human lymphocytes were stained with an isotype control or the rabbit-chimeric version of Ruplizumab at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells were analysed on a flow-cytometer.

**RELATED PRODUCTS:**
- Anti-VEGF (Bevacizumab), humanized Antibody (Cat. No. A1045-100)
- Anti-HER2 (Trastuzumab), humanized Antibody (Cat. No. A1046-100)
- Anti-EGFR (Cetuximab), Chimeric Antibody (Cat. No. A1047-100)
- Anti-TNF-α (Adalimumab), humanized Antibody (Cat. No. A1048-100)
- Anti-CD20 (Rituximab), Chimeric Antibody (Cat. No. A1049-100)
- Anti-EGFR (Panitumumab), humanized antibody (Cat. No. A1050-100)
- Anti-OX40L (Oxelumab), Human IgG1 Antibody (Cat. No. A1088-200)
- Anti-CD11a (Efalizumab), Human IgG1 Antibody (Cat. No. A1089-200)
- Anti-EGFR (Matuzumab), Human IgG1 Antibody (Cat. No. A1090-200)
- Anti-CD4 (Clenoliximab), Human IgG4 Antibody (Cat. No. A1091-200)

FOR RESEARCH USE ONLY! Not to be used on humans.