Anti-TNF alpha (Humicade), Human IgG4 Antibody

CATALOG NO: A1093-200

ALTERNATIVE NAMES: Tumor necrosis factor superfamily member 2, TNFSF2, TNFA

AMOUNT: 200 µg

IMMUNOGEN: Human TNF-alpha

ISOTYPE / FORMAT: Human IgG4, kappa

CLONALITY: Monoclonal

CLONE: CDP 571

SPECIES REACTIVITY: Human

FORM: Liquid

SPECIFICITY: The antibody binds to human a5ß1 integrin with a Kd of 0.367 nM (determined by Biacore), an EC50 of 0.2 nM and an IC50 of 2.3 nM.

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/defrost cycles.

DESCRIPTION: Recombinant monoclonal antibody to TNF alpha. Manufactured using recombinant technology with variable regions (i.e. specificity) from the hybridoma CDP 571 (Humicade). The antibody binds specifically to TNF-alpha, a pro-inflammatory cytokine which stimulates release of other cytokines e.g. IL-1, IL-6 and GM-CSF as well as secretion of ICAM-1 and VCAM-1 from endothelial cells. It stimulates acute phase responses and acts as a chemoattractant for NK cells and monocytes/macrophages. The antibody reached Phase II clinical trials with Celltech, UCB.

APPLICATION: ELISA; NTRL


Western Blot using anti-TNF alpha antibody: Rat liver (lane 1), rat spinal cord (lane 2), mouse testis (lane 3), rat colon (lane 4) and human thyroid tumour (lane 5) samples were resolved on a 10% SDS PAGE gel and blots probed with antibody at 1 µg/ml before being detected by a secondary antibody. The expected band size for TNF alpha is 26 kDa, however dimers and other higher order complexes are well described in the literature too (c.f. Petersen 1989, PMID: 2583226).

Immunohistochemical analysis of rat liver using anti-TNFalpha antibody: Formalin fixed rat liver slices were stained with Anti-TNF alpha (Humicade) antibody at 5 µg/ml

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)
- Anti-TNF alpha (Infliximab), Human IgG1 Antibody (Cat. No. A1097-200)
- Anti-IL-2R alpha (CD25) (Basiliximab), Human IgG1 Antibody (Cat. No. A1098-200)
- Anti-IL-2R alpha (Daclizumab), Human IgG1 Antibody (Cat. No. A1099-200)

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