

Anti-CD70 [TAN 1-7] mAb

Catalogue number: 151721

Sub-type: Primary antibody

Images:

Contributor

Inventor:

Institute: University of Southampton

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-CD70 [TAN 1-7] mAb

Alternate name: CD7 Molecule; Tumor Necrosis Factor Ligand Superfamily Member 7; CD27 Ligand; CD27LG; TNFSF7; CD27L; Tumor Necrosis Factor Ligand 8A; Surface Antigen CD7; Ki-24 Antigen; CD7 Antigen; TNLG8A

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody directed against CD70 cytokine, capable of blocking the CD70-CD27 interaction involved in B and T cell activation.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG2a

Reactivity: Mouse

Selectivity:

Host: Rat

Immunogen: Recombinant mouse CD70 (extracellular domain, aa residues 41-195)

Immunogen UNIPROT ID: O55237

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: Activated dendritic cells

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: CD70

Target alternate names:

Target background: CD70 is a cytokine that belongs to the tumour necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes and dendritic cells. It induces proliferation of co-stimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis. CD70 expression is induced upon activation of DCs, indicating that the CD70-CD27 interaction could take place during the activation of naive T cells by DCs. Anti-CD70 is non-depleting and blocks the CD70-CD27 interaction. CD70 expression is thought to play a role in autoimmune disease regulation, and treatment of autoimmune diseases such as rheumatoid arthritis.

Molecular weight:

Ic50:

Applications

Application: ELISA ; FACS ; IF ; Fn

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Maruani et al. 2008. Am J Clin Pathol. 130(3):369-74. PMID: 18701409. ; Immunostaining with antibodies to desmoglein provides the diagnosis of drug-induced pemphigus and allows prediction of outcome. ; A simple epithelial cell line (MDCK) shows heterogeneity of desmoglein isoforms, one resembling pemphigus vulgaris antigen. ; Vilela et al. 1995. J Cell Sci. 108 (Pt 4):1743-50. PMID: 7615689. ; Harada et al. 1992. Int J Oral Maxillofac Surg. 21(6):346-9. PMID: 1282923. ; Immunohistochemical detection of desmosomes in oral squamous cell carcinomas: correlation with differentiation, mode of invasion, and metastatic potential. ; Conn et al. 1990. Br J Urol. 65(2):176-80. PMID: 2317652. ; Immunohistochemical staining with monoclonal antibody 32-2B to desmosomal glycoprotein 1. Its role in the histological assessment of urothelial carcinomas. ; Vilela et al. 1987. J Pathol. 153(4):365-75. PMID: 3323436. ; Monoclonal antibody to desmosomal glycoprotein 1--a new epithelial marker for diagnostic pathology.

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