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Product datasheet for AM05527PU-T

CD70 Mouse Monoclonal Antibody [Clone ID: Bu69]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Bu69
Applications:	FC, IF, IHC
Recommended Dilution:	**Flow Cytometry:** Use 10 µl of 1/50-1/200 diluted antibody to label 10e6 cells in 100 µl. **Immunohistochemistry on Frozen Sections.**
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes CD70, a 29kD type II transmembrane protein that belongs to the tumour necrosis factor (TNF) family. CD70 is expressed on a small number of activated T-cells and the majority of activated B-cells. Interaction of CD70 with its receptor, CD27, is thought to play an important role in lymphocyte activation, proliferation, survival and differentiation. The antibody Clone Bu69 has been used for the inhibition of neural stem cell induced apoptosis of allogeneic T cells in vitro (Lee et al. 2013).
Formulation:	Phosphate buffered saline pH 7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD70 molecule
Database Link:	Entrez Gene 970 Human P32970

View online »

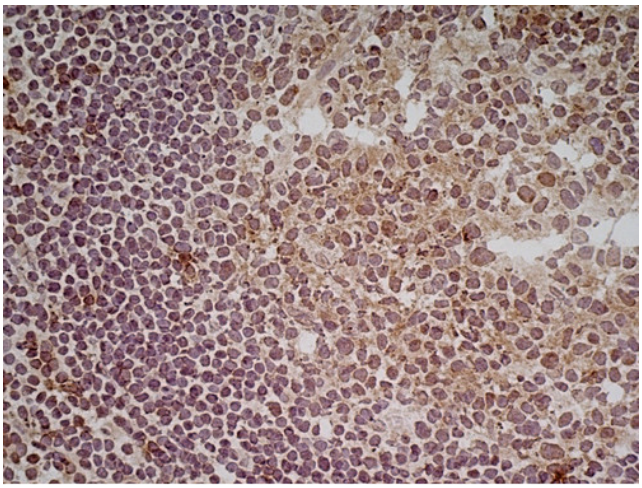
Background: CD70 is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic 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 sythesis.

Synonyms: CD27 ligand, CD27L, CD27LG, TNFSF7

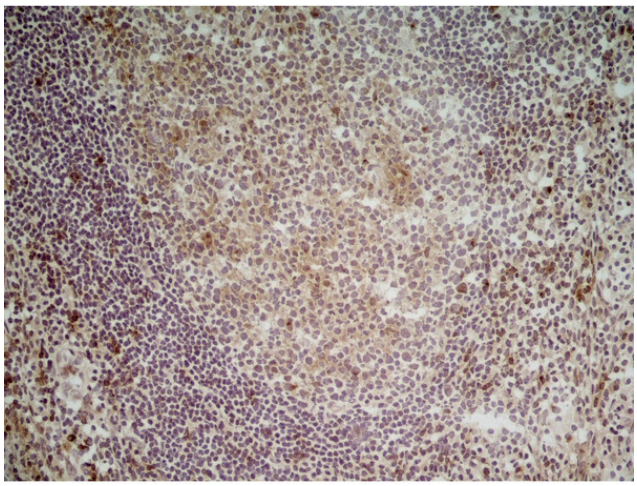
Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

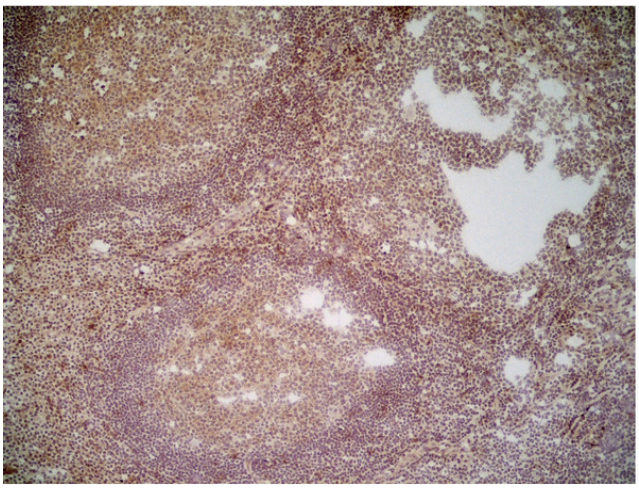
Product images:



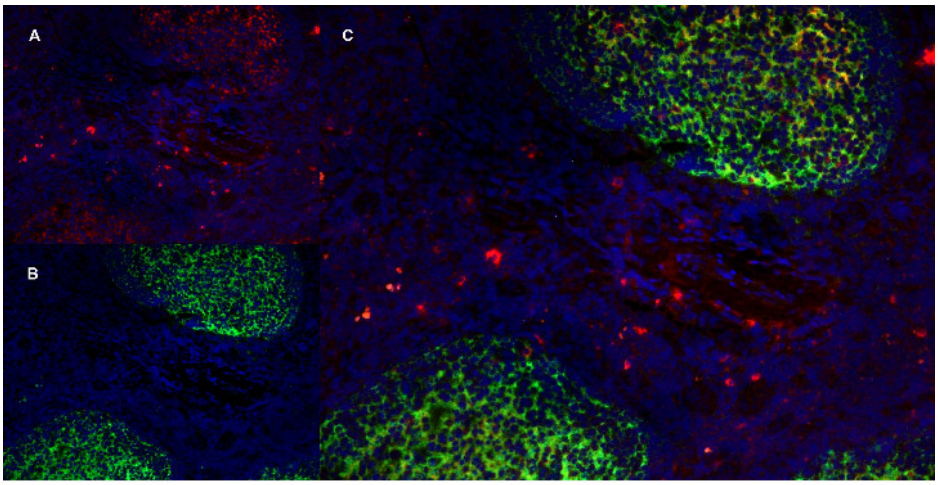
Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD70 antibody, clone Bu69 (Cat.-No AM05527PU) followed by the Histar setection system. High power.



Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD70 antibody, clone Bu69 (Cat.-No AM05527PU) followed by the Histar setection system. Medium power.



Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD70 antibody, clone Bu69 (Cat.-No AM05527PU) followed by the Histar setection system. Low power



Immunofluorescence staining of a human tonsil cryosection with Mouse anti Human CD70 antibody, clone Bu69 (Cat.-No AM05527PU), red in A and Mouse anti Human CD21 antibody, clone LB21, green in B. C is the merged image with nuclei counterstained blue using DAPI. Low power.