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CD70 / TNFSF7 (Activated T- & B-Lymphocyte Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone BU69]
Catalog # AH12800

Product Information

Application	IF, FC, IP, E, IHC-F
Primary Accession	P32970
Other Accession	970, 501497, 715224
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	BU69
Calculated MW	21118

Additional Information

Gene ID	970
Other Names	CD70 antigen, CD27 ligand, CD27-L, Tumor necrosis factor ligand superfamily member 7, CD70, CD70, CD27L, CD27LG, TNFSF7
Application Note	IF~~1:50~200 FC~~1:10~50 IP~~N/A E~~N/A IHC-F~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD70 / TNFSF7 (Activated T- & B-Lymphocyte Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD70 (HGNC:11937)
Function	Expressed at the plasma membrane of B cells, it is the ligand of the CD27 receptor which is specifically expressed at the surface of T cells (PubMed:28011863, PubMed:28011864, PubMed:8387892). The CD70- CD27 signaling pathway mediates antigen-specific T cell activation and expansion which in turn provides immune surveillance of B cells (PubMed:28011863, PubMed:28011864).
Cellular Location	Cell membrane; Single-pass type II membrane protein

Background

It recognizes a protein of 30kDa, identified as CD70. It 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 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. This MAb blocks the interaction between CD27 and CD70, and has been shown to inhibit T cell proliferation induced by dendritic cells.

References

R.Q. Hintzen, et al, (1994) J Immunol 152: 1762-1773. | M.R. Bowman, et al, (1994) J Immunol 152: 1756-1761. | Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1137-1138. | K. Agematsu, et al, (1995) J Immunol 154: 3627-3635