

Datasheet



Mouse mAb to **CD70**
Clone **EBS-CD-039**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human WM-1 (Waldenstrom's macroglobulinemia) cells.
Fusion partner: NS-1.

Specifications

CD70 is a 30 kDa cytokine that belongs to the tumor necrosis factor (TNF) ligand family. CD70 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. It further plays a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis. EBS-CD-039 blocks the interaction between CD27 and CD70, and has been shown to inhibit T-cell proliferation induced by dendritic cells.

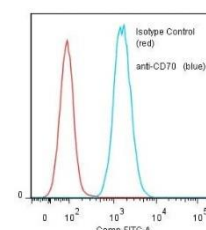


Figure 1: Raji cells stained with EBS-CD-039 (FACS).

Species reactivity

Positive: human.

Applications

Demonstration of CD70.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Immunoprecipitation
+	+	+	+	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunoprecipitation (0,5-1,0 µg/500 µg protein lysate).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Raji cells, lymph node or tonsil.

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References

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