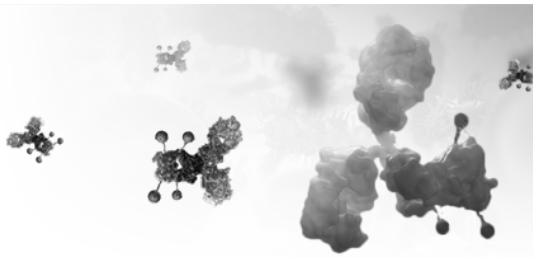

# Mouse Anti-Human CD50 monoclonal antibody, clone NN13 (CABT-ZB774)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| **Specificity** | It reacts with Human CD50 |
| **Target** | ICAM3 |
| **Immunogen** | Recombinant Human CD50/ICAM-3 protein |
| **Isotype** | IgG |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | NN13 |
| **Purification** | Protein A purified |
| **Conjugate** | Unconjugated |
| **Applications** | ELISA(cap), FC<br>This antibody will detect CD50 in antibody pair set. [ABPR-ZB354] |
| **Preparation** | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD50 / ICAM-3. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| **Format** | Purified, Liquid |
| **Concentration** | Lot specific |
| **Size** | 50 µL, 100 µL, 200 µL, 1 mL |

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| **Buffer** | PBS |
| **Preservative** | None |
| **Storage** | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Ship** | Wet ice |

# BACKGROUND

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| **Introduction** | The protein ICAM-3, also known as CD50, is a member of the intercellular adhesion molecule (ICAM) family consisting of three members. It is a DC-SIGN ligand that is constitutively expressed on resting leukocytes and is thus an important molecule for the first immune response. ICAM-3 comprises five immunoglobulin-like domains and binds LFA-1 through its two N-terminal domains. It functions not only as an adhesion molecule but also as a potent signaling molecule. ICAM-3 binds to LFA-1 on antigen-presenting cells (APC) stabilizing the T cell-APC interaction, facilitating signaling through the CD3/TCR complex. However, recent evidence using cultured and transformed T cells suggests ICAM-3 may also function in signaling. It has been reported that the CD50 molecule can play a role in developing functionally mature T lymphocytes and its expression increases during the maturation process of T lymphocytes. Also, the interactions of ICAM-3 and LFA-1 facilitate HIV-1- induced virological synapse formation between T cells. ICAM-3 is associated with an increase in cellular radio-resistance and cancer cell proliferation. It could be considered as a candidate for anti-cancer drug development and as a cancer diagnostic marker. |
| **Keywords** | ICOS; inducible T-cell co-stimulator; inducible T-cell costimulator; activation inducible lymphocyte immunomediatory molecule |

# GENE INFORMATION

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|---|---|
| **Synonyms** | ICOS; inducible T-cell co-stimulator; inducible T-cell costimulator; activation inducible lymphocyte immunomediatory molecule; AILIM; CD278; inducible costimulator; activation-inducible lymphocyte immunomediatory molecule; CVID1; MGC39850 |
| **Entrez Gene ID** | 29851 |
| **UniProt ID** | Q9Y6W8 |

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