

## Anti-CD50 Antibody (5P32)

## Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5P32
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of human ICAM3(CD50) expression on human peripheral blood lymphocytes. Cells were stained with purified anti-Human ICAM3(CD50), then a FITC-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of viable lymphocytes.
Application:	ELISA(Cap),FCM
Recommended	FCM: 1:25-1:100; ELISA(Cap): 1:250-1:2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human CD50 / ICAM-3 protein (TMPY-01430)
Antigen Species:	Human
Synonyms:	ICAM-R;CDW50;intercellular adhesion molecule 3;CD50;ICAM-3

## Research Background

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.

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