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# CD50 / ICAM-3 Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM505 ]
Catalog # AH10491

## Product Information

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| **Application** | IF, FC, IHC-P |
| **Primary Accession** | P32942 |
| **Other Accession** | 3385, 354563 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG2b, kappa |
| **Clone Names** | SPM505 |
| **Calculated MW** | 59541 |

## Additional Information

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| **Gene ID** | 3385 |
| **Other Names** | Intercellular adhesion molecule 3, ICAM-3, CDw50, ICAM-R, CD50, ICAM3 |
| **Application Note** | IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A |
| **Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | CD50 / ICAM-3 Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ICAM3 ( HGNC:5346) |
| **Function** | Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring apoptotic neutrophil phagocytosis by macrophages (PubMed:1448173, PubMed:1448174, PubMed:23775590, PubMed:8325327, PubMed:8459213). Is also a ligand for integrin ITGAD/ITGB2 (PubMed:8777714). Ligand of CD209 on dendritic cells (DC) through an integrin-independent mechanism that requires Ca(2+) and that forms a first contact between DC and resting T cell, facilitating the downstream DC-T cell clustering process and DC-induced proliferation of resting T Cells (PubMed:10721994). |

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| **Cellular Location** | Cell membrane; Single-pass type I membrane protein Note=Localization at uropodium is mediated through interaction with MSN. |
| **Tissue Location** | Constitutively expressed only on resting leukocytes (PubMed:8325327). No expressed on resting or cytokine-activated endothelial cells (PubMed:1448174). |

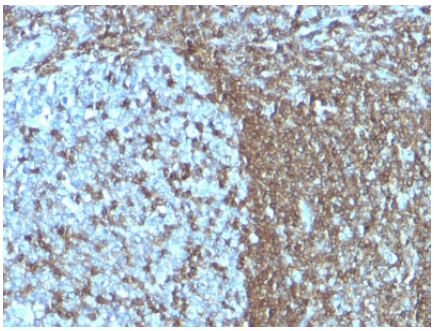
## Background

Recognizes the D1 domain of an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3. CD50 is the major ligand for LFA-1 (CD11a/CD18) and may have signaling role to increase adhesion. It is expressed on thymocytes and T lymphocytes and is resistant to treatment with phosphatidylinositol (PI) phospholipase C. This MAb is excellent for staining of formalin/paraffin tissues.

## References

LeukocyteTyping V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995)p. 1546-1547, 1578-1579. | C.L. Holness, et al, (1995) J Biol Chem 270: 877-884. | Y. van Kooyk,et al, (1996) J Exp Med 183:1247-1252. | Leukocyte TypingVI (T. Kishimoto, et al, eds.) GarlandPublishing, Inc., New York (1997) p.403-409

## Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD50 Monoclonal Antibody (SPM505)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.