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## CD4 (Clone ZM110)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others-not tested

**Immunogen:** Recombinant human CD4 protein fragment (around aa 245-392)

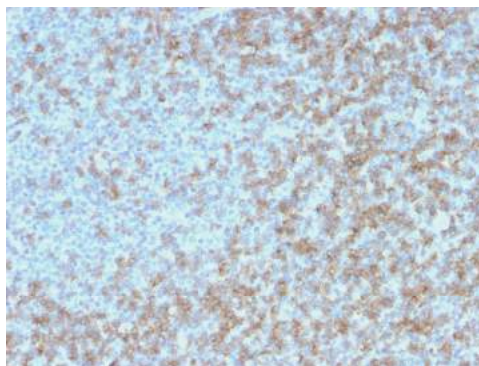
**Ig Class:** IgG

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100. *Positive Control:* Tonsil or cecum. *Cellular Localization:* Membrane. *Intended Use:* In Vitro Diagnosis (IVD).

**Description:** Recognizes a protein of 55kDa, identified as CD4. It is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. The majority of peripheral T-cell lymphomas are derived from the T-helper/regulatory cell subset so that most mature T-cell neoplasms are CD4+/CD8-. Anti-CD4 is used in the immunohistochemical staining of lymphoproliferative disorders to evaluate tumors with CD4 aberrant expression.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human tonsil stained with anti-CD4 using peroxidase-conjugate and DAB chromogen. Note cell membrane staining of T-cells cells*

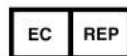
**Cat. #Z2420 (1.0 ml)**

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