

**anti-human CD2 purified****Cat-No.:** H12393                      **0.1 mg****Clone:** LT-2**Specificity:**

The antibody LT2 reacts with CD2, a 50 kDa glycoprotein present on the human peripheral blood T lymphocytes and NK cells; also expressed by all thymocytes.

**HLDA VI; WS Code T 6T-008****Immunogen:** Normal human blood lymphocytes**Isotype subclass:** Mouse IgG2a**Form:** Purified from ascites by precipitation methods and ion exchange chromatography.**Purity:** > 80% (by SDS-PAGE)**Physical state:** Liquid**Buffer/Additives/Preservative:** 20 mM Tris-HCl, pH 7,4 with 0.1% sodium azide**Expiration date:** The reagent is stable until the expiry date stated on the vial label.**Storage conditions:** Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.**Application:**    Flow Cytometry  
                         Immunoprecipitation**Storage conditions:** Store at 4 °C. For long term storage aliquot and store at – 20°C. Avoid freeze/thaw circles.**Application:** The reagent is designed for flow cytometry analysis of human blood cells.**Background:**

CD2 belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection.

**References:** Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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