

**anti-mouse CD81(TAPA-1) purified****Cat-No.: M22135      0.1mg****Clone:** Eat2**Specificity:**

The antibody reacts with the extracellular loops of murine CD81 (TAPA-1) molecule. As a member of the tetraspanin superfamily of cell-surface proteins, CD81 has been linked to the control of cell proliferation, adhesion and motility. CD81 is expressed in higher levels on resting murine B cells than on resting T cells and is functionally active on B cells as it induces homotypic adhesion of B lymphocytes. Unlike human CD81, which is expressed equally on all thymocytes, murine CD81 is upregulated on CD4<sup>+</sup>CD8<sup>+</sup> thymocytes, then down-regulated again on mature single-positive thymocytes. Murine dendritic cells, splenic macrophages and NK cells all express very high levels of CD81. CD81 has also been involved in the induction of IL-4 secretion from T cells during Th2 immune responses. It has been reported that CD81 expression can also be induced in mature T cells upon activation. This anti-CD81 mAb has been shown to decrease the proliferation of LPS stimulated CD81<sup>+/+</sup> B cells to levels similar to that of CD81<sup>-/-</sup> B cells.

**Isotype subclass:** Hamster IgG**Form:** Purified**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.4).**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 repeated freeze/thaw cycles.

**Application:** Flow Cytometry**References:**

1. Maecker, H. T., et al., 2000. Differential expression of murine CD81 highlighted by new anti-mouse CD81 monoclonal antibodies. *Hybridoma* 19:15-22.
2. Maecker, H. T., Todd, S. C. and Levy, S., 1997. The tetraspanin superfamily: Molecular facilitators. *Faseb J* 11:428-442.
3. Miyazaki, T., Muller, U. and Campbell, K. S., 1997. Normal development but differentially altered proliferative responses of lymphocytes in mice lacking CD81. *Embo J* 16:4217-4225.

**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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