

Anti-CD72 [BU40] Standard Size Ab00831-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: BU40

Alternative Name(s) of Target: Lyb-2; B-cell differentiation antigen CD72

UniProt Accession Number of Target Protein: P21854

Published Application(s): Activate, stimulatory, FC

Published Species Reactivity: Human

Immunogen: This antibody was raised against the HF B1 plasmacytoid cell line, which is considered to be late B-like.

Specificity: This antibody is specific for CD72, which is highly expressed by pre-B cells and B-cells, but not terminally differentiated plasma cells.

Application Notes: This antibody has been used to investigate cell-surface expression of CD72 in FACS analysis (Kataoka et al, 2013). This antibody has been shown to induce resting B cells to enter the G1 phase of the cell cycle, stimulate B cell expression of major histocompatibility complex class II antigen and potentiate the capacity of IL-4 to induce CD23 production (Katira et al, 1992). It also stimulates TNF-α and IL-6 production in CD14+ monocytes (Yoshida et al, 2015). Ligation of CD72 by this antibody has been observed to suppress the proliferation of an acute myelogenous leukaemia cell line (Kataoka et al, 2013).

Antibody First Published in: Van de Velde et al. The B-cell surface protein CD72/Lyb-2 is the ligand for CD5. Nature. 1991 Jun 20;351(6328):662-5. [PMID:1711157](#)

Note on publication: Describes the use of this antibody to block the CD5-CD72 interaction

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.