

Anti-CD45 (leukocyte common antigen) [YBM/42.2.2] Standard Size Ab01043-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: YBM/42.2.2

Alternative Name(s) of Target: PTPRC; YBM42; YBM/42; YBM42.2.2; Receptor-type tyrosine-protein phosphatase C; L-CA; CD45

UniProt Accession Number of Target Protein: P04157

Published Application(s): IP, RIA, FC

Published Species Reactivity: Mouse

Immunogen: This antibody was raised by immunising rats with CBAfiCaH mouse bone marrow cells.

Specificity: This antibody recognises a cell surface marker present on all leukocytes but absent from erythroid cells.

Application Notes: Radioactive binding assay tests demonstrated the ability of the YBM/42.2.2 antibody to label mature hemopoietic cells and a variety of cell lines which were neoplastic representatives of progenitor cells (Watt et al., 1983). This antibody was also used to sort CBA bone marrow cells via FACS and the results confirmed the specificity profile acquired in RIA experiments (Watt et al., 1983). Similar, FACS analysis was performed on mouse fetal liver cells as well (Boehm et al., 2014; Watt et al., 1983). Finally, it can identify leukocytes and is also recommended to enrich for early progenitor cells from mouse fetal liver (which is predominantly populated by erythroid line) (Watt et al., 1983).

Antibody First Published in: Watt et al. Segregation of mouse hemopoietic progenitor cells using the monoclonal antibody, YBM/42. J Cell Physiol. 1983 Apr;115(1):37-45 [PMID:6833407](#)

Note on publication: This article describes the generation and characterisation of the YBM42.2.2 antibody.

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.