

Anti-CD45 [YTH54.12] Bulk Size Ab00672-8.4-BT

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

Isotype and Format: Rat IgG2b, [Fc Silent™](#), Kappa

Clone Number: YTH54.12

Alternative Name(s) of Target: PTPRC; leukocyte common antigen; LCA;CD45; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; Itgb2; Lymphocyte antigen 5; Ly-5; T200; protein tyrosine phosphatase receptor type C

UniProt Accession Number of Target Protein: P08575

Published Application(s): Depletion, IP, FC, IF

Published Species Reactivity: Human

Immunogen: Human T-cells injected into DA rats.

Specificity: This antibody binds human CD45, the leukocyte common antigen, at epitope Q2.

Application Notes: This antibody binds to and immunoprecipitates human CD45. In the original rat IgG2b format it was shown to trigger complement mediated lysis and synergizes with clone YTH24.5 (Ab00671) which binds a different epitope on human CD45.

Antibody First Published in: Bidon et al. Therapeutic potential of monoclonal antibodies to the leukocyte-common antigen. Synergy and interference in complement-mediated lysis Transplantation. 1985 Nov;40(5):538-44. [PMID:2414870](#)

Note on publication: Describes generation and characterization of the synergistic effect of several anti-CD45 antibodies on lysis.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.