

## Anti-CD8 (Lyt-2.2) [2.43] Bulk Size Ab02554-2.0-BT

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Kappa

**Clone Number:** 2.43

**Alternative Name(s) of Target:** Lyt 2.2; T-cell surface glycoprotein CD8 alpha chain; Cd8a; T-cell surface glycoprotein Lyt-2; lyt-2; lyt2; CD\_antigen: CD8a; 2.43.1

**UniProt Accession Number of Target Protein:** P01731

**Published Application(s):** Blocking, IP, FC, IF

**Published Species Reactivity:** Mouse

**Immunogen:** This antibody was generated by immunizing a Lewis rat with i.v. 3 times at 2-wk intervals with  $15 \times 10^6$  L3 cloned cytolytic T cells. Three days after the third immunization, the rat spleen cells were fused with either P3 or SP2/0 cells using polyethylene glycol.

**Specificity:** This antibody is specific for the lyt-2 protein of mice (it is specific to the Lyt2.2 variant which is expressed in the mouse strains BALB/c and C57BL/6 (B/6)). Lyt-2 is an integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex.

**Application Notes:** This antibody was used for an immunofluorescence experiment on mouse thymocytes and mouse spleen cells (Sarmiento et al, 1980; pmid:6159417). Immunoprecipitation was performed on NP-40 extract of 126I surface labeled L3 cells using this antibody (Sarmiento et al, 1980; pmid:6159417). This antibody was used to try and block the cytolytic activity from L3 against P-185. It only blocks the receptor-mediated but not lectin mediated cytotoxicity by L3 (Dialynas et al, 1981; pmid:6788878). Flow cytometry was performed with this antibody on washed cells from the lymph node, spleen, thymus and peripheral blood from mice (Rodriguez and Sriram, 1988; pmid:2966203). This antibody was used to stain mouse spleen cells for use in flow cytometry (Mielke et al, 1988; pmid:2969373).

**Antibody First Published in:** Sarmiento et al. IgG or IgM monoclonal antibodies reactive with different determinants on the molecular complex bearing Lyt 2 antigen block T cell-mediated cytotoxicity in the absence of complement J Immunol. 1980 Dec;125(6):2665-72. [PMID:6159417](#)

**Note on publication:** In the paper five rat monoclonal antibodies were derived that express specificities for determinants present on the molecular complex bearing the Lyt 2 antigen.

## 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.