

Product datasheet for **AM08024BT-N**

Cd5 Rat Monoclonal Antibody [Clone ID: 4H8E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4H8E6
Applications:	FC, FN, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: Identification and enumeration of CD5+ cells ($< / = 1 \mu\text{g}/10\text{e}6$ cells). (Ref.15) Immunoprecipitation. (Ref.15) Immunohistochemistry on Frozen Sections. (Ref.15) T Cell Activation. (Ref.15) Western blotting. (Ref.15)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific to CD5/Lyt-1 (Mr. 67 kDa)
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD5 antigen
Database Link:	Entrez Gene 12507 Mouse P13379



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Background:

CD5/Lyt-1 antigen is a monomeric type I transmembrane glycoprotein expressed on thymocytes, T lymphocytes, and a subset of B lymphocytes, but not on natural killer (NK) cells. (Ref.1-3) It has been identified as the major ligand of the B-cell antigen CD72. (Ref.4,5) The frequency of CD5+ B cells exhibits strain-dependent variation, and the phenotypic, anatomical, functional, developmental, and pathological characteristics of the CD5+ B cells suggest that they may represent a distinct lineage, known as B-1 cells (reviewed in Ref.6). Binding of CD5 on the T cell surface can augment alloantigen- or mitogen-induced lymphocyte proliferation and induces increased cytosolic free calcium, IL-2 secretion, and IL-2R expression. (Ref.7-12) It has been proposed that CD5 negatively regulates signal transduction mediated by the T-cell and B-cell receptors. (Ref.13,14)

Synonyms:

CD5, LEU1