

Anti-CD5 Antibody

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anti-CD5 Antibody is a humanized monoclonal antibody targeting CD5 (also known as T1 or Leu-1). CD5 is a transmembrane glycoprotein primarily expressed on T cells and a subset of B1a cells, functioning as a negative regulator of T-cell receptor (TCR) and B-cell receptor (BCR) signaling. It plays a crucial role in maintaining immune tolerance and preventing autoimmune responses. This antibody is used to study the regulatory mechanisms of T-cell activation, develop targeted therapies for CD5-positive hematological malignancies (such as chronic lymphocytic leukemia and mantle cell lymphoma), or act as a novel immune checkpoint blockade to enhance anti-tumor immune responses by relieving immune inhibition.
Targets(IC50)	Others
In vitro	In biochemical and flow cytometry assays, Anti-CD5 Antibody exhibits high-affinity binding to human CD5 on the surface of T lymphocytes and B-CLL cell lines. Functional assays demonstrate that blocking the CD5-mediated inhibitory pathway can enhance TCR-induced signaling, leading to increased T-cell proliferation and secretion of cytokines such as IFN-gamma and IL-2 in primary cell cultures [1][2].
In vivo	In pharmacological studies using mouse models of cancer or immune-related disorders, systemic administration of Anti-CD5 Antibody (at doses such as 10 mg/kg) functions as an immune checkpoint blockade. This treatment results in a significant increase in tumor-infiltrating effector T cells, leading to delayed tumor growth and enhanced anti-tumor immunity in complex physiological environments [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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