

CD5 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50085

Clone# BP6090

Predicted Molecular Wt: 55kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P06127

Background:

The CD5 antigen is a transmembrane glycoprotein expressed on the surface of practically all mature human T-cells (about 10% of CD4+ T-cells being CD5 negative). In immature (CD34+) T-cells, CD5 is weakly expressed, the intensity of expression increasing with maturation. CD5 is also expressed in a small subset of normal human B-cells (20% of B-cells in the peripheral blood, scattered cells in the lymph node mantle zone). The CD5+ cells are probably involved in B-T interaction and their ligand is CD72 which is expressed on all B cells. It appears that CD5+ B-cells on activation primarily produce IgM. They also produce more autoantibodies than normal CD5 negative B-cells. Thus, the CD5+ B-cell population is expanded in rheumatoid arthritis and systemic lupus erythematosus.

The CD5 antibody reacts with CD5 expressed on B and T cells, and may be a useful aid for the classification of B and T-cell malignancies. This includes B-cell chronic lymphoid leukemia (B-CLL), B-cell small lymphocytic lymphoma (B-SLL), mantle cell lymphoma (MCL) and T-cell lymphoma and leukemia.

Subcellular location:

Cytoplasmic membrane

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Recombinant full length protein corresponding to Human CD5 (extracellular). The immunogen contains the specific extracellular domain of huCD5 (D32-P372).

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

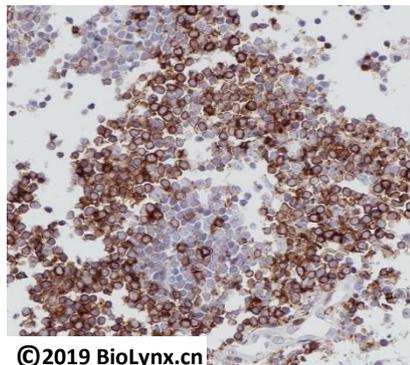
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Gloria Soldevila, et al. J Leukoc Biol. 2019;1-14.
2. Manjun Zhao, Ningning Duan, et al. Autoimmunity. 2019;1-9.



©2019 Biolynx.cn

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of appendix tissue labelling CD5 with BP6090. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.