

Datasheet for ABIN5693203
anti-CD5 antibody (AA 25-495)



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Overview

Quantity:	100 µg
Target:	CD5
Binding Specificity:	AA 25-495
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD5 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-CD5 Antibody Picoband®
Immunogen:	E. coli-derived human CD5 recombinant protein (Position: R25-L495).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CD5 Antibody Picoband® (ABIN5693203). Tested in ELISA, Flow Cytometry, IF, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Target Details

Target:	CD5
Alternative Name:	CD5 (CD5 Products)
Background:	Synonyms: T-cell surface glycoprotein CD5, Lymphocyte antigen T1/Leu-1, CD5, CD5, LEU1 Tissue Specificity: Adipose tissue is the main source of leptin it is also produced by other peripheral tissues such as the skeletal muscle (PubMed:7789654, PubMed:16052473, PubMed:12448771). Expressed by intercalated and striated tracts of submandibular and parotid salivary gland intralobular ducts (PubMed:12448771). Detected by fundic epithelium of the gastric mucosa (PubMed:10896907). Secreted into blood and gastric juice (PubMed:10896907). Background: CD5 is a member of the scavenger receptor cysteine-rich (SRCR) superfamily. Members of this family are secreted or membrane-anchored proteins mainly found in cells associated with the immune system. In humans, the gene is located on the long arm of chromosome 11. This protein is a type-I transmembrane glycoprotein found on the surface of thymocytes, T lymphocytes and a subset of B lymphocytes. The encoded protein contains three SRCR domains and may act as a receptor to regulate T-cell proliferation. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Weight:	67 kDa
Gene ID:	921
UniProt:	P06127

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunohistochemistry (Frozen Section), 0.5-1 µg/mL Immunocytochemistry, 0.5-1 µg/mL Immunofluorescence, 2 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells ELISA, 0.1-0.5 µg/mL 1. Lundell, A.-C., Johansen, S., Adlerberth, I., Wold, A. E., Hesselmar, B., Rudin, A. High proportion of CD5+ B cells in infants predicts development of allergic disease. J. Immun. 193: 510-518, 2014. 2. Zhang, C., Xin, H., Zhang, W., Yazaki, P. J., Zhang, Z., Le, K., Li, W., Lee, H., Kwak, L., Forman, S., Jove, R., Yu, H. CD5 binds to interleukin-6 and induces a feed-forward loop with the transcription factor STAT3 in B cells to promote cancer. Immunity 44: 913-923, 2016.
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Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.