

Rabbit anti-Human CD3D Polyclonal Antibody | anti-CD3D antibody

Anti-CD3D Antibody Picoband

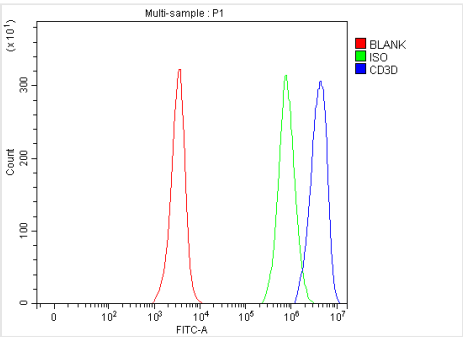
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127230	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

CD3D; Polyclonal Antibody; Anti-CD3D Antibody Picoband; anti-CD3D antibody

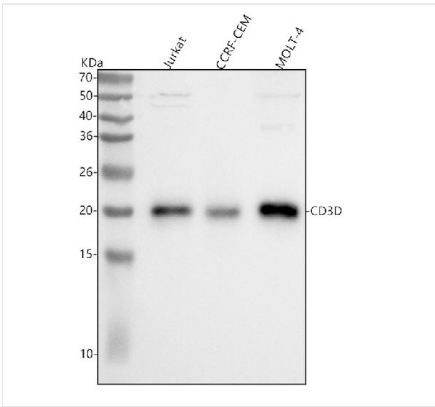
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CD3D antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human CD3D recombinant protein (Position: F22-K171). Human CD3D shares 66% and 70.7% amino acid (aa) sequence identity with mouse and rat CD3D, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-CD3D antibody (AAA127230).Overlay histogram showing JK cells stained with AAA127230 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD3D Antibody (AAA127230, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of CD3D using anti-CD3D antibody (AAA127230).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysates,Lane 2: human CCRF-CEM whole cell lysates,Lane 3: human MOLT-4 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD3D antigen affinity purified polyclonal antibody (#AAA127230) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD3D at approximately 19 kDa. The expected band size for CD3D is at 19 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3D antibody	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.
Product Categories/Family for anti-CD3D antibody	Primary Antibodies
References	1. Dadi, H. K., Simon, A. J., Roifman, C. M. Effect of CD3-delta deficiency on maturation of alpha/beta and gamma/delta T-cell lineages in severe combined immunodeficiency. New Eng. J. Med. 349: 1821-1828, 2003. Note: Erratum: New Eng. J. Med. 350: 1803 only, 2004.2. de Saint Basile, G., Geissmann, F., Flori, E., Uring-Lambert, B., Soudais, C., Cavazzana-Calvo, M., Durandy, A., Jabado, N., Fischer, A., Le Diest, F. Severe combined immunodeficiency caused by deficiency in either the delta or the epsilon subunit of CD3. J. Clin. Invest. 114: 1512-1517, 2004.3. Delgado, P., Fernandez, E., Dave, V., Kappes, D., Alarcon, B. CD3-delta couples T-cell receptor signalling to ERK activation and thymocyte positive selection. Nature 406: 426-430, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115985
NCBI GeneID	915
UniProt Accession #	P04234; A8MVP6
Molecular Weight	171
NCBI Official Full Name	T-cell surface glycoprotein CD3 delta chain
NCBI Official Synonym Full Names	CD3d molecule, delta (CD3-TCR complex)
NCBI Official Symbol	CD3D
NCBI Official Synonym Symbols	T3D; IMD19; CD3-DELTA

NCBI Protein Information	T-cell surface glycoprotein CD3 delta chain; OKT3, delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta polypeptide (TiT3 complex)
UniProt Protein Name	T-cell surface glycoprotein CD3 delta chain
UniProt Gene Name	CD3D
UniProt Synonym Gene Names	T3D
UniProt Entry Name	CD3D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cd3d-antibody-flow-cytometry-western-blot-elisa/127230>