

Rabbit anti-Human T12/CD6 Polyclonal Antibody | anti-T12/CD6 antibody

Anti-T12/CD6 Antibody Picoband

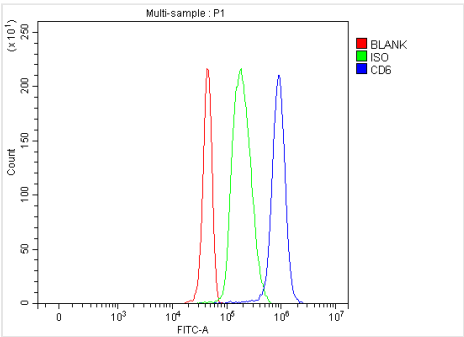
CATALOG # AAA127205	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

T12/CD6; Polyclonal Antibody; Anti-T12/CD6 Antibody Picoband; aldolase; fructose-bisphosphate B; Fructose-bisphosphate aldolase B; Liver-type aldolase; ALDOB; ALDB; anti-T12/CD6 antibody

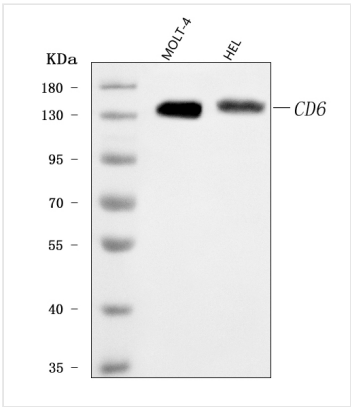
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Pancreas-specific (at protein level). Loss of expression is seen in ductal type pancreas cancers.
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-T12/CD6 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human T12/CD6 recombinant protein (Position: E133-Q608).
Subcellular Localization	Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Transcription factor implicated in the cell fate determination in various organs. Binds to the E-box consensus sequence 5'-CANNTG-3'. Plays a role in early and late pancreas development and differentiation. Important for determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. May be involved in the maintenance of exocrine pancreas-specific gene expression including ELA1 and amylase. Required for the formation of pancreatic acinar and ductal cells. Plays an important role in cerebellar development. ly regulated by FOXN4 and RORC during retinal development, FOXN4-PTF1A pathway plays a central role in ing the differentiation of retinal progenitors towards horizontal and amacrine fates.
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 Jurkat cells using anti-T12/CD6 antibody (AAA127205).Overlay histogram showing Jurkat cells stained with AAA127205 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-T12/CD6 Antibody (AAA127205, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of T12/CD6 using anti-T12/CD6 antibody (AAA127205).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 MOLT-4 whole cell lysates,Lane 2: human HEL 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-T12/CD6 antigen affinity purified polyclonal antibody (#AAA127205) 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 T12/CD6 at approximately 135 kDa. The expected band size for T12/CD6 is at 72 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-T12/CD6 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-T12/CD6 antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction
References	1. Aruffo, A., Melnick, M. B., Linsley, P. S., Seed, B. The lymphocyte glycoprotein CD6 contains a repeated domain structure characteristic of a new family of cell surface and secreted proteins. J. Exp. Med. 174: 949-952, 1991.2. Bowen, M. A., Whitney, G. S., Neubauer, M., Starling, G. C., Palmer, D., Zhang, J., Nowak, N. J., Shows, T. B., Aruffo, A. Structure and chromosomal location of the human CD6 gene. J. Immun. 158: 1149-1156, 1997.3. De Jager, P. L., Jia, X., Wang, J., de Bakker, P. I. W., Ottoboni, L., Aggarwal, N. T., Picco, L., Raychaudhuri, S., Tran, D., Aubin, C., Briskin, R., Romano, S., and 22 others. Meta-analysis of genome scans and replication identify CD6, IRF8 and TNFRSF1A as new multiple sclerosis susceptibility loci. Nature Genet. 41: 776-782, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	363543322
NCBI GeneID	923
NCBI Accession #	NP_001241679.1
NCBI GenBank Nucleotide #	NM_001254750.1
UniProt Accession #	P30203; Q9UMF2; Q9Y4K7; Q9Y4K8; Q9Y4K9; Q9Y4L0
Molecular Weight	71,801 Da
NCBI Official Full Name	T-cell differentiation antigen CD6 isoform 2
NCBI Official Synonym Full Names	CD6 molecule

NCBI Official Symbol	CD6
NCBI Official Synonym Symbols	TP120
NCBI Protein Information	T-cell differentiation antigen CD6; T12; CD6 antigen
UniProt Protein Name	T-cell differentiation antigen CD6
UniProt Gene Name	CD6
UniProt Entry Name	CD6_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/t12-cd6-antibody-flow-cytometry-western-blot-elisa/127205>