

## Rabbit anti-Human CD28 Polyclonal Antibody | anti-CD28 antibody

Anti-CD28 Antibody Picoband

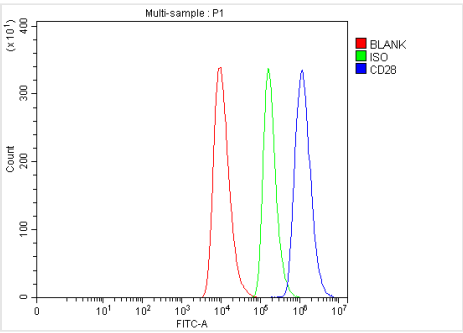
|                               |                       |                            |                                                                              |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA125949</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Flow Cytometry, Functional Assay, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

CD28; Polyclonal Antibody; Anti-CD28 Antibody Picoband; anti-CD28 antibody

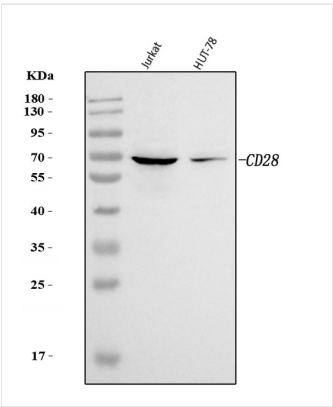
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                       |
| Reactivity                                     | Human                                                                                                                                                                                                                        |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                   |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                   |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                    | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                     |
| Concentration                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-CD28 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                          |
| Reconstitution                                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                    |
| Immunogen                                      | E Coli-derived human CD28 recombinant protein (Position: Q15-D214).                                                                                                                                                          |
| Preparation and Storage                        | Store 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 HEL cells using anti-CD28 antibody (AAA125949).Overlay histogram showing HEL cells stained with AAA125949 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD28 Antibody (AAA125949, 1 ug/1x10<sup>6</sup> 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 (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of CD28 using anti-CD28 antibody (AAA125949).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 HUT-78 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-CD28 antigen affinity purified polyclonal antibody (#AAA125949) at 0.5 ug/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 CD28 at approximately 60 kDa. The expected band size for CD28 is at 25 kDa.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD28 antibody | The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| Product Categories/Family for anti-CD28 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 340545508                                                              |
| NCBI GeneID                      | 940                                                                    |
| NCBI Accession #                 | NP_001230006.1                                                         |
| NCBI GenBank Nucleotide #        | NM_001243077.1                                                         |
| UniProt Accession #              | P10747; Q13964; Q52M23; Q8NI54; Q8NI55; Q8NI56; Q8WXJ2; Q9BYV0; A8KAC1 |
| Molecular Weight                 | 25,066 Da                                                              |
| NCBI Official Full Name          | T-cell-specific surface glycoprotein CD28 isoform 2                    |
| NCBI Official Synonym Full Names | CD28 molecule                                                          |
| NCBI Official Symbol             | CD28                                                                   |
| NCBI Official Synonym Symbols    | Tp44                                                                   |
| NCBI Protein Information         | T-cell-specific surface glycoprotein CD28; CD28 antigen                |
| UniProt Protein Name             | T-cell-specific surface glycoprotein CD28                              |
| UniProt Gene Name                | CD28                                                                   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/cd28-antibody-flow-cytometry-western-blot-elisa/125949>