

Rabbit anti-Human CD3 Gamma/CD3G Polyclonal Antibody | anti-CD3Gamma/CD3G antibody

Anti-CD3 Gamma/CD3G Antibody Picoband

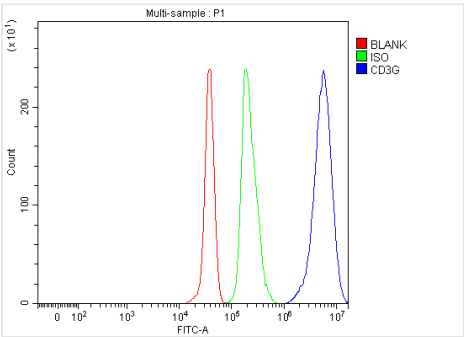
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127258	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

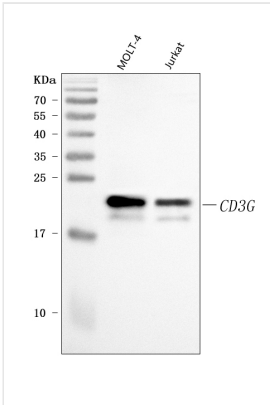
CD3 Gamma/CD3G; Polyclonal Antibody; Anti-CD3 Gamma/CD3G Antibody Picoband; Annexin A4; relaxin family peptide receptor 2; Relaxin receptor 2; G-protein coupled receptor 106; G-protein coupled receptor affecting testicular descent; Leucine-rich repeat-containing G-protein coupled receptor 8; Relaxin family peptide receptor 2; RXFP2; GPR106; GREAT; LGR8; anti-CD3Gamma/CD3G antibody

PRODUCT SPECIFICATIONS

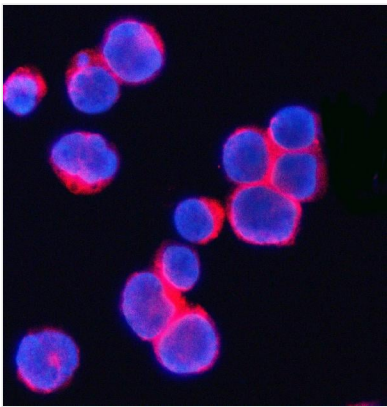
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed mainly in the brain, kidney, muscle, testis, thyroid, uterus, peripheral blood cells and bone marrow.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CD3Gamma/CD3G antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human CD3 Gamma/CD3G recombinant protein (Position: Q23-D165).
Subcellular Localization	Cell membrane, Multi-pass membrane protein
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	Receptor for relaxin. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. May also be a receptor for Leydig insulin-like peptide (INSL3).
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 3. Flow Cytometry analysis of JK cells using anti-CD3 Gamma/CD3G antibody (AAA127258).Overlay histogram showing JK cells stained with AAA127258 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD3 Gamma/CD3G Antibody (AAA127258, 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 CD3 Gamma/CD3G using anti-CD3 Gamma/CD3G antibody (AAA127258).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 MOMLT-4 whole cell lysates,Lane 2: human Jurkat 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-CD3 Gamma/CD3G antigen affinity purified polyclonal antibody (#AAA127258) 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 CD3 Gamma/CD3G at approximately 20-25 kDa. The expected band size for CD3 Gamma/CD3G is at 20-25 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of CD3 Gamma/CD3G using anti-CD3 Gamma/CD3G antibody (AAA127258).CD3 Gamma/CD3G was detected in an immunocytochemical section of JK cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-CD3 Gamma/CD3G Antibody (AAA127258) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3Gamma/CD3G 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-CD3Gamma/CD3G antibody	Primary Antibodies; Endocrine System; G Protein Signaling; More Gpcr; Neuroscience; Neurotransmission; Receptors/Channels; Signal Transduction; Signaling Pathway

References	1. Arnaiz-Villena, A., Perez-Aciego, P., Ballestin, C., Sotelo, T., Perez-Seoane, C., Martin-Villa, J. M., Regueiro, J. R. Biochemical basis of a novel T lymphocyte receptor immunodeficiency by immunohistochemistry: a possible CD3-gamma abnormality. Lab. Invest. 64: 675-681, 1991. 2. Arnaiz-Villena, A., Timon, M., Corell, A., Perez-Aciego, P., Martin-Villa, J. M., Regueiro, J. R. Primary immunodeficiency caused by mutations in the gene encoding the CD3-gamma subunit of the T-lymphocyte receptor. New Eng. J. Med. 327: 529-533, 1992. 3. Das, S., Cotter, F. E., Gibbons, B., Dhut, S., Young, B. D. CD3G is within 200 kb of the leukemic t(4;11) translocation breakpoint. Genes Chromosomes Cancer 3: 44-47, 1991.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557429
NCBI GeneID	917
NCBI Accession #	NP_000064.1
NCBI GenBank Nucleotide #	NM_000073.2
UniProt Accession #	P09693; Q2HIZ6
NCBI Official Full Name	T-cell surface glycoprotein CD3 gamma chain
NCBI Official Synonym Full Names	CD3g molecule, gamma (CD3-TCR complex)
NCBI Official Symbol	CD3G
NCBI Official Synonym Symbols	T3G; IMD17; CD3-GAMMA
NCBI Protein Information	T-cell surface glycoprotein CD3 gamma chain; CD3g antigen, gamma polypeptide (TiT3 complex); CD3g molecule, epsilon (CD3-TCR complex); T-cell antigen receptor complex, gamma subunit of T3; T-cell receptor T3 gamma chain
UniProt Protein Name	T-cell surface glycoprotein CD3 gamma chain
UniProt Gene Name	CD3G
UniProt Synonym Gene Names	T3G
UniProt Entry Name	CD3G_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.