

Rabbit anti-Human CD3 zeta Polyclonal Antibody | anti-CD247 antibody

Anti-CD3 zeta Antibody, Rabbit Polyclonal

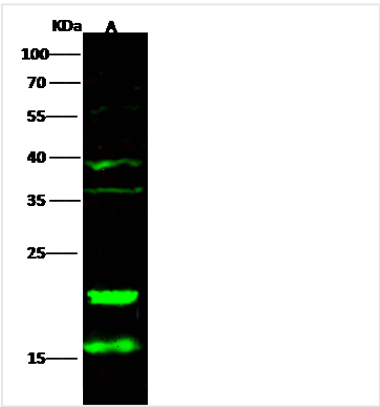
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255639	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

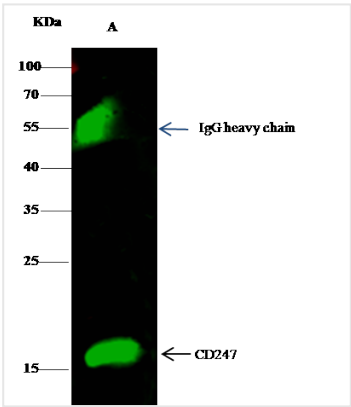
CD3 zeta; Polyclonal Antibody; Anti-CD3 zeta Antibody; Rabbit Polyclonal; CD247/CD3-ZETA Antibody; Rabbit PAb; Antigen Affinity Purified; CD247 molecule; Anti-CD3-ZETA Antibody; Anti-CD3H Antibody; Anti-CD3Q Antibody; Anti-CD3Z Antibody; Anti-IMD25 Antibody; Anti-T3Z Antibody; Anti-TCRZ Antibody; anti-CD247 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CD247/CD3-ZETA
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD247 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human CD247/CD3-ZETA Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CD247/CD3-ZETA (rh CD247/CD3-ZETA). CD247/CD3-ZETA specific IgG was purified by Human CD247/CD3-ZETA affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-CD247 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 19 kDa Observed band size: 19 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)
CD247 was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 2 uL anti-CD247 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-CD247 rabbit polyclonal antibody, at 1:200 dilution. Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 19 kDa Observed band size: 19 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CD247 antibody	CD247, also known as CD3-ZETA, belongs to the CD3Z/FCER1G family. It contains 3 ITAM domains. As a -cell receptor zeta, CD247 forms the T-cell receptor-CD3 complex together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for CD247 gene. Defects in CD247 can cause immunodeficiency due to defect in CD3-zeta. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens. CD247 may play a role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
References	1. Radstake TR, et al. (2010) Genome-wide association study of systemic sclerosis identifies CD247 as a new susceptibility locus. Nat Genet. 42(5):426-9. 2. Dieud P, et al. (2011) Independent replication establishes the CD247 gene as a genetic systemic sclerosis susceptibility factor. Ann Rheum Dis. 70(9):1695-6. 3. Li R, et al. (2012) Association of CD247 with systemic lupus erythematosus in Asian populations. Lupus. 21(1):75-83.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557431
NCBI GeneID	919
NCBI Accession #	NP_000725.1
NCBI GenBank Nucleotide #	NM_000734.3
UniProt Accession #	P20963; Q5VX13; Q8TAX4; B1AK49; A46461
Molecular Weight	18,696 Da
NCBI Official Full Name	T-cell surface glycoprotein CD3 zeta chain isoform 2
NCBI Official Synonym Full Names	CD247 molecule
NCBI Official Symbol	CD247
NCBI Official Synonym Symbols	T3Z; CD3H; CD3Q; CD3Z; TCRZ; CD3-ZETA
NCBI Protein Information	T-cell surface glycoprotein CD3 zeta chain; CD3zeta chain; TCR zeta chain; CD247 antigen, zeta subunit; T-cell receptor T3 zeta chain; CD3Z antigen, zeta polypeptide (TiT3 complex); T-cell antigen receptor complex, zeta subunit of CD3

UniProt Protein Name	T-cell surface glycoprotein CD3 zeta chain
UniProt Gene Name	CD247
UniProt Synonym Gene Names	CD3Z; T3Z; TCRZ
UniProt Entry Name	CD3Z_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd3-zeta-antibody-immunoprecipitation-western-blot-elisa/255639>