

AbboMax, Inc

Innovation at Work

Rabbit anti-CD3 zeta Polyclonal Antibody

Synonym: CD3 zeta

Order Information

Description: Rabbit anti-CD3
Catalogue#: 500-3054
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: RIA, WB, IP, IHC, FC
Reactivity: Hu, Rt, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the N-terminus of human CD3 zeta. This sequence is identical among human, rat and mouse species.

BACKGROUND

CD3 is a glycoprotein consisting of up to five polypeptide chains (gp20, gp26, p16, p20, p28). It forms three dimmers: a heterodimer of gamma and epsilon chain, a heterodimer of delta and epsilon chains and a homodimer of two zeta chains or a heterodimer of zeta and eta chains. CD3 is required for proper assembly, trafficking and surface expression of TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. CD3 is involved in T cell activation, proliferation and apoptosis pathway. This protein is present on virtually all peripheral blood T cells and thymocytes. The CD3 zeta plays an important role in coupling antigen recognition to several intracellular signal transduction pathway. Low expression of the antigen results in impaired immune response.

PURIFICATION

The Rabbit IgG is purified by Epitope-specific Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD3 zeta protein. It cross-reacts to human, mouse and rat. The other species was not tested.

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

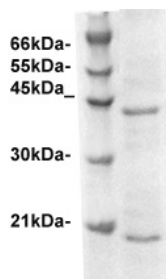
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	2-5 $\mu\text{g/ml}$
Flow cytometry	5-10 $\mu\text{g/ml}$

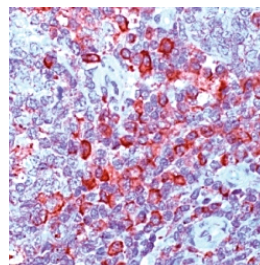
MOLECULAR WEIGHT:	~20 kDa
POSITIVE CONTROL:	Jurkat Cell, Tonsil Tissue
CELLULAR LOCATION:	Membrane/Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



WB: Jurkat cell lysate was resolved onto 12% SDS-PAGE, and followed by immunoblotting with Rabbit anti-CD3 zeta (Cat# 500-3054) antibody at 1:500. Two immunoreactive proteins were observed at ~20 kDa (monomer) and ~42 kDa (Dimer).



IHC: Human tonsil tissue stained with Anti-CD3 zeta (Cat# 500-3054) antibody at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Kearse KP. Calnexin associates with monomeric and oligomeric (disulfidelinked) CD3delta proteins in murine T lymphocytes. J Biol Chem. (1998) 273(23):141527.

FOR RESEARCH USE ONLY.

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