

## CD3 $\zeta$ Polyclonal Antibody

<b>Catalog No :</b>	YT0747
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	CD3 $\zeta$
<b>Fields :</b>	>>Natural killer cell mediated cytotoxicity;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>Chagas disease;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>PD-L1 expression and PD-1 checkpoint pathway in cancer
<b>Gene Name :</b>	CD247
<b>Protein Name :</b>	T-cell surface glycoprotein CD3 zeta chain
<b>Human Gene Id :</b>	919
<b>Human Swiss Prot No :</b>	P20963
<b>Mouse Gene Id :</b>	12503
<b>Mouse Swiss Prot No :</b>	P24161
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CD3 zeta. AA range:111-160
<b>Specificity :</b>	CD3 $\zeta$ Polyclonal Antibody detects endogenous levels of CD3 $\zeta$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 20kD

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**Cell Pathway :** Natural killer cell mediated cytotoxicity;T\_Cell\_Receptor;

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**Background :** The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. 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 this gene. [provided by RefSeq, Jul 2008],

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**Function :** disease:Defects in CD247 are a cause of primary T-cell immunodeficiency [MIM:610163]. Affected individuals suffer of recurrent infections. Patients T-cell counts are very low and B-cell counts are normal.,domain:The ITAM domains mediate interaction with SHB.,function:Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.,online information:CD247 mutation db,PTM:Phosphorylated on Tyr residues after T-cell receptor triggering.,similarity:Belongs to the CD3Z/FCER1G family.,similarity:Contains 3 ITAM domains.,subunit:The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta. CD3-zeta forms either homodimers or heterodimers with CD3-eta. Interacts with SLA and SLA2. Interacts w

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**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein.

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**Expression :** CD3Z is expressed in normal lymphoid tissue and in peripheral blood mononuclear cells (PBMCs) (PubMed:11722641).

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**Tag :** orthogonal

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**Sort :** 52

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**No4 :** 1

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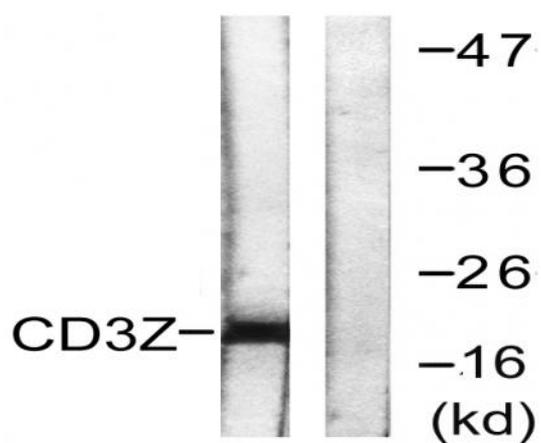
**Host :** Rabbit

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**Modifications :** Unmodified

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## Products Images



Western blot analysis of lysates from Jurkat cells, treated with UV 15', using CD3 zeta Antibody. The lane on the right is blocked with the synthesized peptide.