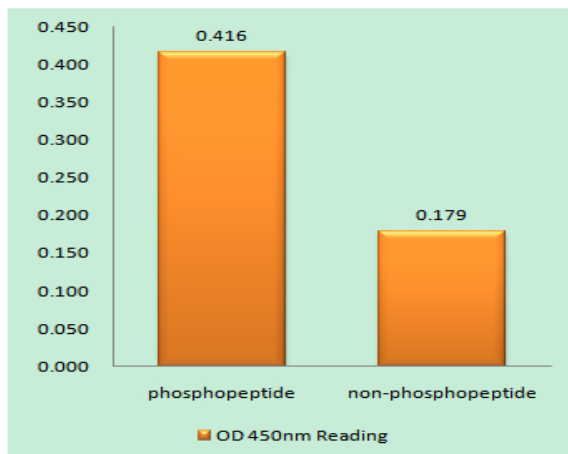


**CD3  $\zeta$  (phospho Tyr142) Polyclonal Antibody**

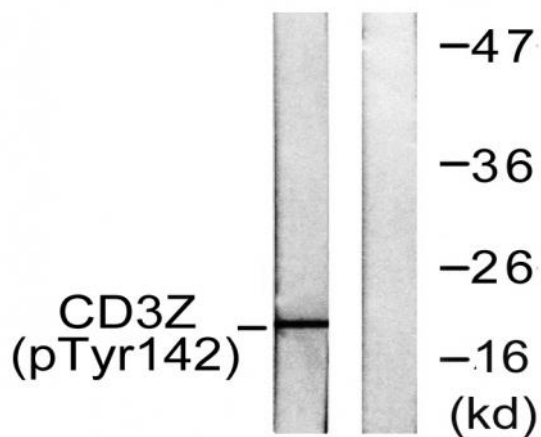
<b>Catalog No :</b>	YP0051
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	CD3 $\zeta$
<b>Fields :</b>	>>Natural killer cell mediated cytotoxicity;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>Chagas 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 around the phosphorylation site of Tyr142. AA range:111-160
<b>Specificity :</b>	Phospho-CD3 $\zeta$ (Y142) Polyclonal Antibody detects endogenous levels of CD3 $\zeta$ protein only when phosphorylated at Y142.
<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: 1:5000.. IF 1:50-200

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	20kD
<b>Cell Pathway :</b>	Natural killer cell mediated cytotoxicity;T_Cell_Receptor;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Cell membrane ; Single-pass type I membrane protein.
<b>Expression :</b>	CD3Z is expressed in normal lymphoid tissue and in peripheral blood mononuclear cells (PBMCs) (PubMed:11722641).
<b>Tag :</b>	orthogonal
<b>Sort :</b>	51
<b>No4 :</b>	1
<b>Host :</b>	Rabbit

## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CD3 zeta (Phospho-Tyr142) Antibody



Western blot analysis of lysates from Jurkat cells treated with UV 15', using CD3 zeta (Phospho-Tyr142) Antibody. The lane on the right is blocked with the phospho peptide.