

**ZAP-70(PT2241) mouse mAb**

<b>Catalog No :</b>	YM6657
<b>Reactivity :</b>	Human
<b>Applications :</b>	IHC-p, WB
<b>Gene Name :</b>	ZAP70 SRK
<b>Protein Name :</b>	Tyrosine-protein kinase ZAP-70 (EC 2.7.10.2) (70 kDa zeta-chain associated protein) (Syk-related tyrosine kinase)
<b>Human Gene Id :</b>	7535
<b>Human Swiss Prot No :</b>	P43403
<b>Immunogen :</b>	Synthesized peptide derived from human ZAP-70
<b>Specificity :</b>	This antibody detects endogenous levels of human Tyrosine-protein kinase ZAP-70 (EC 2.7.10.2) (70 kDa zeta-chain associated protein) (Syk-related tyrosine kinase). Heat-induced epitope retrieval (HIER)
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Mouse/IgG1, Kappa
<b>Dilution :</b>	IHC-p 1:100-500 WB 1:500-2000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-20°C/1 year
<b>Background :</b>	zeta chain of T cell receptor associated protein kinase 70(ZAP70) Homo sapiens This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal

transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

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**Function :**

catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in ZAP70 are the cause of selective T-cell defect (STD) [MIM:176947]. STD is an autosomal recessive form of severe combined immunodeficiency characterized by a selective absence of CD8-type T-cells.,domain:The SH2 domain binds to the phosphorylated tyrosine-based activation motif (TAM) of CD3Z.,function:Plays a role in T-cell development and lymphocyte activation. Essential for TCR-mediated IL-2 production. Isoform 1 induces TCR-mediated signal transduction, isoform 2 does not.,online information:ZAP70 mutation db,PTM:Phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation. Tyr-319 phosphorylation is essential for full activity.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. SYK/ZAP-70 subfamily.,similarity:Contains 1 prote

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**Subcellular Location :**

Cytoplasmic, Nuclear

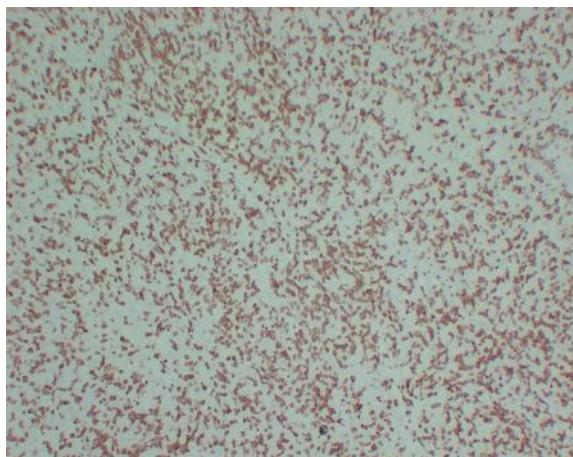
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**Expression :**

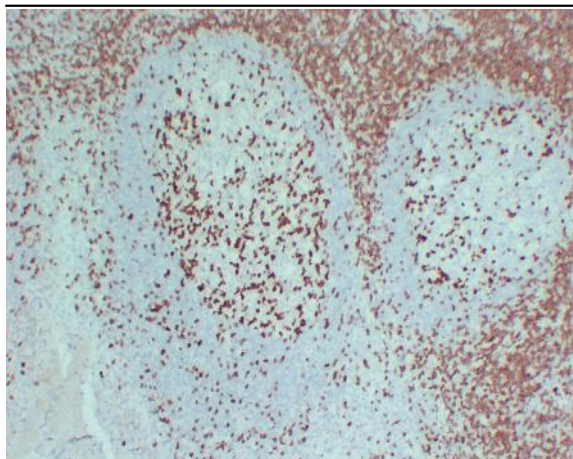
Blood,Brain,Leukocyte,Lymphoid,T-cell,

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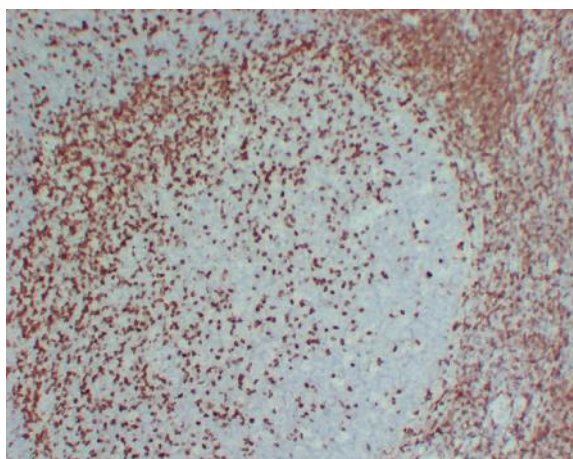
## Products Images



Immunohistochemical analysis of paraffin-embedded human Hodgkin's lymphoma. 1,ZAP-70 Antibody was diluted at 1:200(4°,overnight). 2, Citrate buffer of pH6.0 was used for antigen retrieval



Immunohistochemical analysis of paraffin-embedded human Tonsil. 1,ZAP-70 Antibody was diluted at 1:200(4°,overnight). 2, Citrate buffer of pH6.0 was used for antigen retrieval



Immunohistochemical analysis of paraffin-embedded human Tonsil. 1,ZAP-70 Antibody was diluted at 1:200(4°,overnight). 2, Citrate buffer of pH6.0 was used for antigen retrieval