

Zap-70(Ab-319) Antibody

Catalog No: #21173

Package Size: #21173-1 50ul #21173-2 100ul

Description

Product Name	Zap-70(Ab-319) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Zap-70 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.317~321 (S-P-Y-S-D) derived from Human ZAP70.
Conjugates	Unconjugated
Target Name	Zap-70
Other Names	70 kDa zeta-associated protein; SRK; Syk-related tyrosine kinase; ZA70; ZAP-70
Accession No.	Swiss-Prot: P43403NCBI Protein: NP_001070.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

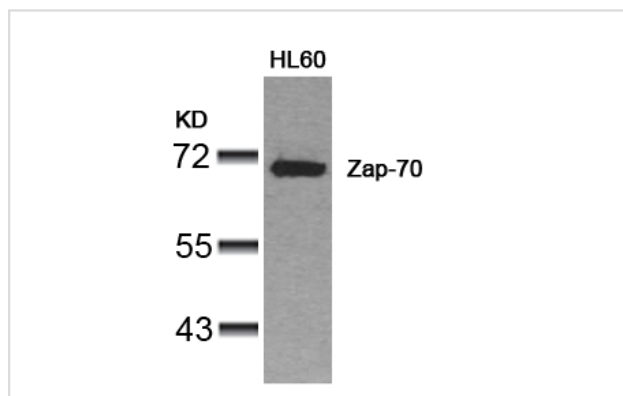
Application Details

Predicted MW: 70kd

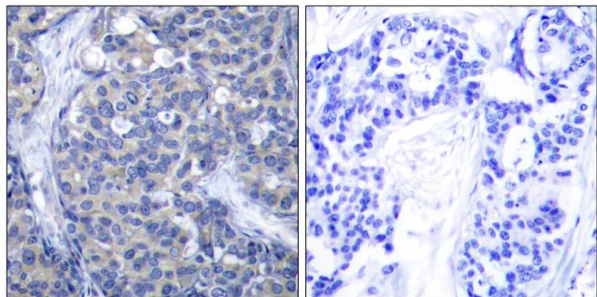
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HL60 cells using Zap-70(Ab-319) Antibody #21173.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using Zap-70(Ab-319) Antibody #21173(left) or the same antibody preincubated with blocking peptide(right).

Background

ZAP70 is a 70-kD tyrosine phosphoprotein that associates with the zeta chain and undergoes tyrosine phosphorylation following TCR stimulation. The ZAP70 gene is expressed in T- and natural KILLER cells. Protein-Tyrosine Kinases (PTKs) play an integral role in T-cell activation. Stimulation of the T-cell antigen receptor results in tyrosine phosphorylation of a number of cellular substrates. One of these is the TCR-zeta chain, which can mediate the transduction of extracellular stimuli into cellular effector functions

Salomon AR, et al. (2003) Proc Natl Acad Sci U S A; 100(2): 443-448

Ku GM, et al. (2001) EMBO J; 20(3): 457-465

Tang J, et al. (1999) Proc Natl Acad Sci U S A; 96(17): 9775-9780

Zhao Q, et al. (1996) Mol Cell Biol; 16(12): 6765-6774

Williams BL, et al. (1999) EMBO J; 18(7): 1832-1844

Adjali O, et al. (2005) J Clin Invest; 115(8): 2287-2295.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.