

Monoclonal Antibody to ZAP70

Cat. #: Mab-606041

Description:

ZAP70(zeta-chain associated protein kinase), a 70 kDa member of the SYK tyrosine kinase family, plays a central role in lymphocyte activation and development, and is implicated in several immune disorders. Zap70 controls TCR(T-cell antigen receptor)-linked signal transduction pathways. Its key role in thymocytes development and mature T lymphocytes activation has been illustrated by the characterization of several human immunodeficiencies presenting with mutations in the zap-70 gene. ZAP-70 is also expressed in several types of B-cell neoplasm and is easily detected by immunohistochemistry, providing a useful prognostic marker in patients with chronic lymphocytic leukaemia.

Immunogen/Specificity:

Ni-NTA purified truncated recombinant ZAP70 expressed in E. Coli strain BL21 (DE3)

Applications :

Western Blot: 1: 500- 1: 2,000

IHC(P): 1: 500- 1: 2,000

IHC(F): 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Antibodies are purified by protein A affinity chromatography.

References

- 1.Sigal Gelkop , Gerrald D. Gish, Yael Babichev
J Immunol. 2005 Dec 15;175(12):8123-32
- 2.Joaquim Carreras , Neus Villamor ,Lluís Colomo
J Pathol. 2005 Mar;205(4):507-13
- 3.Claire Hivroz
Med Sci (Paris). 2005 Feb;21(2):150-5

Clone Number: 3D2A4

Isotype: IgG1

Species: Human

Storage and Stability: at -20oC

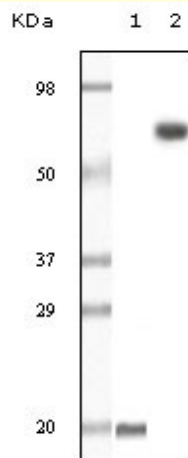


Figure 1: Western blot analysis using anti-Human ZAP70 monoclonal antibody against truncated ZAP70 recombinant protein(1) and Jurkat cell lysate(2).

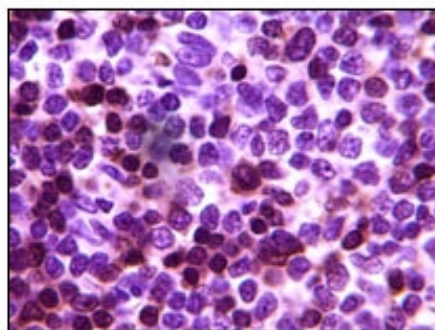


Figure 2: Immunohistochemical analysis of paraffin-embedded human Lymph tumor, showing cytoplasmic localization, using ZAP70 antibody with DAB staining.