Mouse anti ZAP-70 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** ZAP-70
- **Catalogue:** 604-780
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY184
- **Application:** IHC(P)
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human ZAP-70

BACKGROUND

ZAP-70 is a 70kD protein expressed near the surface membrane of T-cells and NK cells. It is part of the intracellular signaling mechanism of the T-cell receptor, and plays integral role in T-cell signaling where it interacts with CD3-ζ to phosphorylate transmembrane protein LAT, which facilitates the binding of many signaling proteins. ZAP-70 plays a key role in the activation of T-cells, and their subsequent proliferation, differentiation, and production of cytokines in response to varied stimuli. It is used clinically as a prognostic marker helping differentiate the various types of chronic lymphocytic leukemia (CLL).

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human ZAP-70 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 110.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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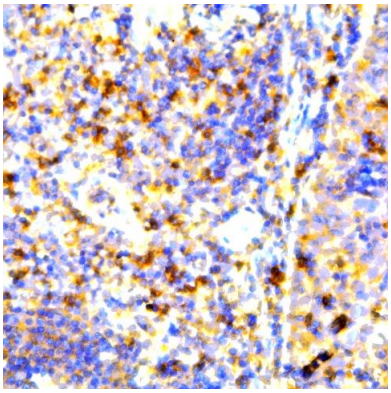
DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti- ZAP-70 (Cat# 604-780) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Jamroziak K, et al. 2009. Cancer Epidemiol. Biomarkers Prev. 18:945.

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