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Product Data Sheet

Purified anti-human/mouse ZAP-70

Catalog # / Size: 313401 / 25 µg
313402 / 100 µg

Clone: 1E7.2

Isotype: Mouse IgG1

Immunogen: GST-fusion protein corresponding to residues 282-307 of human ZAP-70

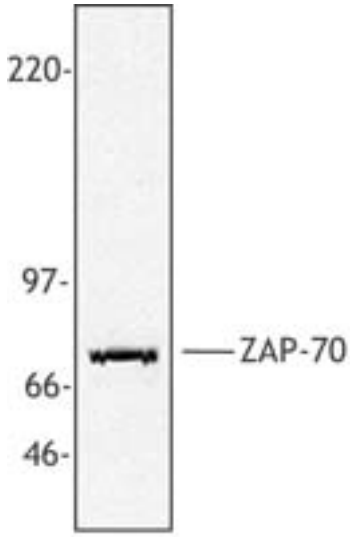
Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration 0.2 mg/ml.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Jurkat cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with monoclonal anti-ZAP-70 antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: ICFC, WB - *Quality tested*
IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis or Western blotting. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 µg per 10^6 cells in 100 µl volume. For Western blotting, the suggested working dilution(s)is 0.5-1 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[2], Western blotting[2].

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Application References:
1. Qian D, *et al.* 1997. *J. Exp. Med.* 185:1253. (ICFC)
2. Crespo M, *et al.* 2003. *New Engl. J. Med.* 348:1764. (WB IP)
3. Jamroziak K, *et al.* 2009. *Cancer Epidemiol Biomarkers Prev.* PubMed
4. Tai TS, *et al.* 2013. *J. Immunol.* 190:428. PubMed.

Description: ZAP-70 is a 70 kD protein tyrosine kinase associated with the zeta chain of the T cell receptor. It is expressed in T cells and NK cells and has been shown to be involved in T cell signaling. Defects in ZAP-70 have been linked to selective T cell defects. The ZAP-70 kinase undergoes multiple phosphorylation events after T cell receptor engagement and interacts with a number of proteins involved in signal transduction. Recently, ZAP-70 has been identified as an important prognostic marker in B-cell chronic lymphocytic leukemia (B-CLL). The 1E7.2 monoclonal antibody recognizes human and mouse ZAP-70 and has been shown to be useful for flow cytometry, Western blotting, and immunoprecipitation.

Antigen References:
1. Chan AC, *et al.* 1992. *Cell* 71:649.
2. Chan AC, *et al.* 1994. *Science* 264:1559.
3. Arpaia E, *et al.* 1994. *Cell* 76:947.

Related Products:

Product	Clone	Application
Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
Fixation Buffer		ICC, ICFC
Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587