Zap-70 Monoclonal Antibody (1E7.2), PE, eBioscience™

Product Details

| FIGUUCI Details | |
|--------------------------------|---|
| Size | 100 µg |
| Species Reactivity | Human, Mouse |
| Published Species | Mouse |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™ |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | 1E7.2 |
| Conjugate | PE |
| Excitation/Emission Max | 565/576 nm |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_466141 |
| | |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|---------------|
| Flow Cytometry (Flow) | 1 μg/test | 1 Publication |

Product Specific Information

Description: The 1E7.2 antibody reacts with human and mouse ZAP-70, the TCR zeta-associated protein-70. ZAP-70 is a cytosolic protein tyrosine kinase (PTK) and a member of the Syk family of proteins. It is expressed in T and NK cells and is required for TCR signaling and development. ZAP-70 interacts with the TCR complex by binding to tyrosine-phosphorylated immunoreceptor tyrosine-based activation motifs (ITAMs) present in the invariant subunits of the TCR complex. Following activation, ZAP-70 is phosphorylated on several tyrosine residues by two mechanisms; an autophosphorylation and a transphosphorylation by the Src family tyrosine kinase Lck1-3. Tyrosine phosphorylation of ZAP-70 correlates to its increased kinase activity and triggers downstream signaling events. Mutations in ZAP-70 have been shown to result in a form of Severe Combined Immunodeficiency Syndrome (SCID) in humans. 1E7.2 was generated against a KLH-peptide sequence corresponding to the human ZAP-70 amino acid residues 282-307. While ZAP-70 is normally expressed in T and NK cells, several recent studies have also shown high correlation of ZAP-70 positive expression with mutated IgVH expression in B-chronic lymphocytic leukemia (CCL). In conclusion, the expression of ZAP-70, which can be measured by intracellular flow cytometry, may serve as a prognostic marker for B-CLL.

Applications Reported: The 1E7.2 antibody has been reported for use in intracellular flow cytometric analysis.

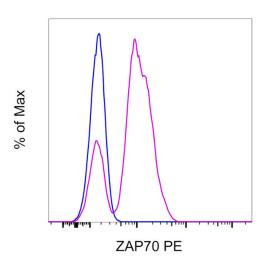
Applications Tested: This 1E7.2 antibody has been tested by intracellular flow cytometric analysis of mouse thymocytes and human Jurkat cells using the Foxp3/Transcription Factor Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Zap-70 Monoclonal Antibody (1E7.2), PE, eBioscience™



Zap-70 Antibody (12-6695-82) in Flow

Normal human peripheral blood cells were stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with 0.5 µg Mouse IgG1 kappa Isotype Control, PE (Product # 12-4714-82) (blue histogram) or 0.5 µg ZAP-70 Monoclonal Antibody, PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

□ 1 Reference

Flow Cytometry (1)

PloS one

Quantitative analysis of protein phosphorylations and interactions by multi-colour IP-FCM as an input for kinetic modelling of signalling networks.

Year 2011

Species Mouse

"12-6695 was used in Flow cytometry/Cell sorting to develop a multi-colour immunoprecipitation technique for studying signal transduction events."

Authors: Deswal S,Schulze AK,Höfer T,Schamel WW

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