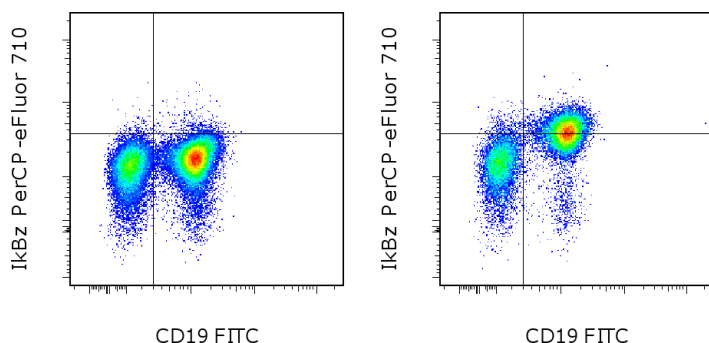


Anti-Mouse IκB zeta PerCP-eFluor® 710

Catalog Number: 46-6801

Also known as: IKBZ, INAP, MAIL, NF-kappa-B inhibitor zeta, Nfkbiz

RUO: For Research Use Only. Not for use in diagnostic procedures.



Mouse splenocytes were cultured for 5 hours either unstimulated (left) or with 1 ug/mL of LPS (right). Cells were stained with Anti-Mouse CD19 FITC (cat. 11-0193) followed by fixation and permeabilization with the Fcγ3/Transcription Factor Staining Buffer (cat. 00-5523) and subsequent with 0.06 ug of Anti-Mouse IκBz PerCP-eFluor® 710. Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (cat. 65-0865), within the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse IκB zeta PerCP-eFluor® 710



Catalog Number: 46-6801

Clone: LK2NAP

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

The LK2NAP monoclonal antibody reacts with mouse IκB zeta (INAP, MAIL). IκBz is a member of the IκB family of cytoplasmic proteins and transcription factors and also shares structural homology with Bcl-3. It is induced in monocytes, macrophages and B cells in response to TLR and IL-1R signaling. In NK cells, IκBz is rapidly upregulated in response to IL-12 and IL-18 and is necessary for production of IFN gamma. In T cells, IκBz is not necessary for IFN gamma and IL-4 production by Th1 and Th2 cells, respectively. However in Th17 cells, IκBz acts in concert with RORα and RORγt to upregulate IL-17A, IL-17F, IL-21, IL-22 and IL-23R expression.

Applications Reported

This LK2NAP antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This LK2NAP antibody has been tested by intracellular staining and flow cytometric analysis of LPS-activated mouse splenocytes using the Fcγ3 Buffer Set (cat. 00-5523) and protocol. This can be used at less than or equal to 0.125 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

References

Miyake T, Satoh T, Kato H, Matsushita K, Kumagai Y, Vandenbon A, Tani T, Muta T, Akira S, Takeuchi O. IκBz is

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Kitamura H, Matsushita Y, Iwanaga T, Mori K, Kanehira K, Fujikura D, Morimatsu M, Saito M. Bacterial lipopolysaccharide-induced expression of the IkappaB protein MAIL in B-lymphocytes and macrophages. Arch Histol Cytol. 2003 Mar;66(1):53-62

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0193 Anti-Mouse CD19 FITC (eBio1D3 (1D3))

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)

65-0865 Fixable Viability Dye eFluor® 780