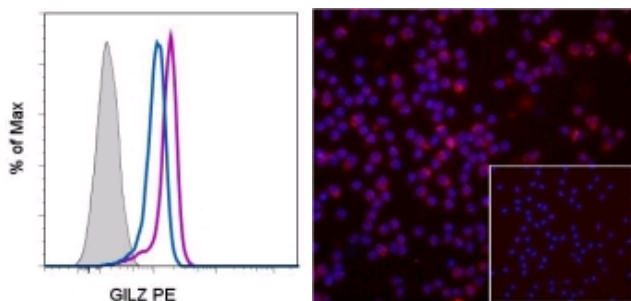


Anti-Human/Mouse GILZ PE

Catalog Number: 12-4033

Also Known As: Glucocorticoid-Induced Leucine Zipper, TSC22D3

RUO: For Research Use Only




Left: C57BL/6 lymph node cells were cultured for 3 hr with (purple histogram) or without (blue histogram) dexamethasone, followed by intracellular staining with 0.25 µg of Rat IgG2a κ Isotype Control PE (cat. 12-4321) (filled histogram) or 0.25 µg of Anti-Human/Mouse GILZ PE (filled histograms). CD3⁺ cells in the lymphocyte gate were used for analysis.

Right: Normal human peripheral blood cells were cultured for 3 hr with dexamethasone, followed by intracellular staining with 5 µg/ml of Rat IgG2a κ Isotype Control PE (cat. 12-4321) (inset) or 5 µg/ml of Anti-Human/Mouse GILZ PE. Cells were cytopspun onto glass slides and the nuclei were counterstained with DAPI.

Product Information

Contents: Anti-Human/Mouse GILZ PE

 Catalog Number: 12-4033

Clone: CFMKG15

Concentration: 0.2 mg/ml

Host/Isotype: Rat IgG2a, κ

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



Caution, contains Azide

Description

GILZ is a leucine-zipper-containing protein that is induced by glucocorticoids. It is expressed in mast cells, monocytes, macrophages, dendritic cells, and T cells. GILZ has been shown to inhibit production of IL-2 as well as TCR-driven upregulation of FasL. GILZ mediates these changes in transcription, at least in part, by inhibiting DNA-binding of the transcription factors AP-1 and NF-κB. GILZ has also been shown to mediate anti-inflammatory signals in macrophages and dendritic cells by interfering with NF-κB-mediated signaling. Although GILZ has been reported to localize to the nucleus, more recent reports as well as testing at eBioscience have observed predominantly cytoplasmic staining.

Applications Reported

This CFMKG15 antibody has been reported for use in intracellular staining followed by flow cytometric analysis and immunocytochemistry.

Applications Tested

This CFMKG15 antibody has been tested by intracellular flow cytometric analysis of dexamethasone-treated mouse lymph node cells and human peripheral blood cells. This can be used at less than or equal to 0.5 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.

Special Notes

For intracellular staining with CFMKG15, it is recommended to use IC Fixation Buffer (cat. 00-8222) followed by permeabilization with a 1X dilution of the 10X Permeabilization Buffer (cat. 00-8333).

References

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Berrebi D, Bruscoli S, Cohen N, Foussat A, Migliorati G, Bouchet-Delbos L, Maillot MC, Portier A, Couderc J, Galanaud P, Peuchmaur M, Riccardi C, Emilie D. Synthesis of glucocorticoid-induced leucine zipper (GILZ) by macrophages: an anti-inflammatory and immunosuppressive mechanism shared by glucocorticoids and IL-10. *Blood*. 2003 Jan 15;101(2):729-38.

Ayrolidi E, Migliorati G, Bruscoli S, Marchetti C, Zollo O, Cannarile L, D'Adamio F, Riccardi C. Modulation of T-cell activation by the glucocorticoid-induced leucine zipper factor via inhibition of nuclear factor kappaB. *Blood*. 2001 Aug 1;98(3):743-53.

Mittelstadt PR, Ashwell JD. Inhibition of AP-1 by the glucocorticoid-inducible protein GILZ. *J Biol Chem*. 2001 Aug 3;276(31):29603-10.

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Related Products

12-4321 Rat IgG2a K Isotype Control PE

17-0191 Anti-Mouse CD19 APC (MB19-1)

17-0199 Anti-Human CD19 APC (HIB19)

48-0032 Anti-Mouse CD3 eFluor® 450 (Pacific Blue® replacement) (17A2)

48-0037 Anti-Human CD3 eFluor® 450 (Pacific Blue® replacement) (OKT3)

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