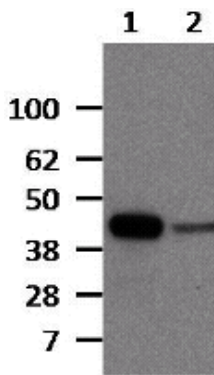


Anti-Mouse IRF1 Purified

Catalog Number: 14-5836

Also Known As: Interferon regulatory factor 1, IRF-1

RUO: For Research Use Only



Immunoblot of BALB/c bone marrow cells either stimulated for 16 hours with 1 µg/ml of LPS (lane 1) or unstimulated (lane 2). Lysates were analyzed by SDS-PAGE followed by immunoblotting with 2 µg/ml of Anti-Mouse IRF1 Purified. Bands were visualized using Anti-Armenian Hamster IgG HRP.

Product Information

Contents: Anti-Mouse IRF1 Purified


REF Catalog Number: 14-5836

Clone: TK-1


Concentration: 0.5 mg/ml


Host/Isotype: Armenian Hamster IgG

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

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The TK-1 monoclonal antibody reacts with mouse Interferon Regulatory Factor-1 (IRF-1). IRF-1 is a transcription factor that is expressed in all cells and has been shown to play many roles in the immune system. IRF-1 activates transcription of IFN γ , and more recently has been shown to induce TNF α expression in response to IFN γ . Recent studies in IRF-1 knockout mice have revealed additional pleiotropic effects of IRF-1. Impairment in IL-12 production by macrophages, impaired CD8 $^+$ T cell and NK cell maturation and the absence of Th1 responses with exclusive Th2 differentiation have all been reported in IRF-1 knockout mice. These IRF-1-deficient mice also have increased numbers of immature, tolerogenic dendritic cells and differentiated regulatory T cells.

Applications Reported

This TK-1 antibody has been reported for use in immunoblotting (WB).

Applications Tested

This TK-1 antibody has been tested by immunoblot on mouse bone marrow cell lysates. This can be used at 1-5 µg/ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Vila-del Sol V, Punzón C, Fresno M. IFN-gamma-induced TNF-alpha expression is regulated by interferon regulatory factors 1 and 8 in mouse macrophages. *J Immunol.* 2008 Oct 1;181(7):4461-70.

Fragale A, Gabriele L, Stellacci E, Borghi P, Perrotti E, Ilari R, Lanciotti A, Remoli AL, Venditti M, Belardelli F, Battistini A. IFN regulatory factor-1 negatively regulates CD4 $^+$ CD25 $^+$ regulatory T cell differentiation by repressing Foxp3 expression. *J Immunol.* 2008 Aug 1;181(3):1673-82.

M Hatakeyama, T Kono, N Kobayashi, A Kawahara, SD Levin, RM Perlmutter, and T Taniguchi. Interaction of the IL-2 receptor with the src-family kinase p56lck: identification of novel intermolecular association. *Science.* 1991 Jun 14;252(5012):1523-8. (TK-1, western blot)

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com