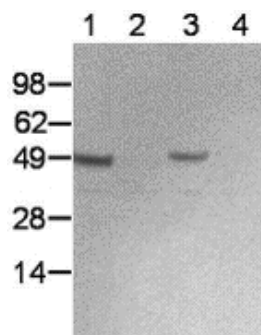


## Anti-Mouse IRF8 Purified

**Catalog Number:** 14-5850

**Also Known As:** Interferon regulatory factor 8, ICSBP

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



Immunoblot of non-reduced (Lanes 1 and 2) or reduced (Lanes 3 and 4) lysates from thioglycolate-induced peritoneal exudate cells (PECs) after in vitro stimulation with IFN gamma and LPS (Lanes 1 and 3) or unstimulated (Lanes 2 and 4). Bands were visualized using Anti-Rabbit IgG HRP.

### Product Information

**Contents:** Anti-Mouse IRF8 Purified

**REF** **Catalog Number:** 14-5850

**Clone:** polyclonal

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rabbit polyclonal

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



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### Description

This purified polyclonal antibody reacts with Interferon (IFN)-Regulatory Factor 8 (IRF8), also known as Interferon Consensus Sequence Binding Protein (ICSBP). IRF8 is a 426 amino acid transcription factor in the IRF family that is induced by IFN $\gamma$  and affects the expression of proinflammatory cytokines such as IL-12 and Type I IFN. IRF8 contributes to innate and adaptive immune responses and can be found in activated macrophages, dendritic cells, and B cells. IRF8 activates the transcription of IFN-inducible genes by interacting with the IFN-Stimulated Response Element (ISRE). It can also repress transcription through TEL (an Ets family member) interaction-mediated histone deacetylase HDAC3 recruitment, leading to decreased transcription at the ISRE. Upon IFN gamma and TLR stimulation, it is also found to interact with autoantigen Ro52 which is involved in autoimmune diseases such as Sjogren's syndrome and systemic lupus erythematosus.

### Applications Reported

Purified anti-mouse IRF8 (IRF-8) has been reported for use in immunoblotting (WB).

### Applications Tested

Purified anti-mouse IRF8 (IRF-8) has been tested by immunoblot on macrophages treated for 5 hours with IFN $\gamma$  and LPS. This can be used at less than or equal to 2  $\mu$ g/ml in blocking buffer. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Zhou JX, Lee CH, Qi CF, Wang H, Naghashfar Z, Abbasi S, Morse HC 3rd. IFN regulatory factor 8 regulates MDM2 in germinal center B cells. *J Immunol.* 2009 Sep 1;183(5):3188-94. (IRF8, WB, Pubmed)

Kong HJ, Anderson DE, Lee CH, Jang MK, Tamura T, Tailor P, Cho HK, Cheong J, Xiong H, Morse HC 3rd, Ozato K. Cutting edge: autoantigen Ro52 is an interferon inducible E3 ligase that ubiquitinates IRF-8 and enhances cytokine expression in macrophages. *J Immunol.* 2007 Jul 1;179(1):26-30. (IRF8, WB, Pubmed)

Kuwata T, Gongora C, Kanno Y, Sakaguchi K, Tamura T, Kanno T, Basrur V, Martinez R, Appella E, Golub T, Ozato K. Gamma interferon triggers interaction between ICSBP (IRF-8) and TEL, recruiting the histone deacetylase HDAC3 to the interferon-responsive element. *Mol Cell Biol.* 2002 Nov;22(21):7439-48.

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