

anti-IRF1

Cat #: HM1199
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Interferon regulatory factor-1 (IRF-1) and IRF-2 are members of the interferon regulatory transcription factor family that also includes IRF-3, IRF-4 (designated ICSAT in human and Pip or LSIRF in mouse), IRF-7, p48, which is the 48 kDa component of the ISGF-3 complex, and ICSBP (IFN consensus sequence-binding protein). IRF-1 and IRF-2 are structurally related, particularly in their N-terminal regions that confer DNA binding specificity. They bind to the same sequence within the promoters of interferon- α and interferon- β genes. IRF1 serves as an activator of interferons alpha and beta transcription, and in mouse it has been shown to be required for double-stranded RNA induction of these genes. IRF1 also functions as a transcription activator of genes induced by interferons alpha, beta, and gamma. Further, IRF1 has been shown to play roles in regulating apoptosis and tumor-suppression. IRF2 competitively inhibits the IRF1-mediated transcriptional activation of interferons alpha and beta, and presumably other genes that employ IRF1 for transcription activation.

SPECIFICITY

This antibody specifically reacts with IRF-1 of mouse, rat and, to a lesser extent, human origin by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections); non cross-reactive with IRF-2.

Molecular weight of IRF-1: 45 kDa.

IMMUNOGEN

A peptide at the carboxy terminus of mouse IRF-1.

STORAGE

This antibody is stable for 12 months when stored at 2-8° C.

REFERENCES

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