



IRF-1 Rabbit mAb

Catalog No	YP-rAb-17482
Isotype	IgG
Reactivity	Human,Mouse,Rat,Fish
Applications	WB,IHC,IF,IP,ELISA
Gene Name	IRF1
Protein Name	Interferon regulatory factor 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:100-1:400; WB 1:500-1:2000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	IRF 1;Interferon regulatory factor 1;IRF1 ; Interferon regulatory factor 1 ; IRF-1;IRF1
Observed Band	48kD
Calculated Molecular Weight	37kD
Cell Pathway	Nucleus . Cytoplasm . MYD88-associated IRF1 migrates into the nucleus more efficiently than non-MYD88-associated IRF1. .
Tissue Specificity	Pancreas,Placenta,Spleen,
Function	Disease:Deletion or rearrangement of IRF1 are a cause of preleukemic myelodysplastic syndrome (MDS) and of acute myelogenous leukemia (AML).,Function:Specifically binds to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) and activates those genes. Acts as a tumor suppressor.,induction:By viruses and IFN.,PTM:Sumoylation represses the transcriptional activity and displays enhanced resistance to protein degradation. Inactivates the tumor suppressor activity. Elevated levels in tumor cells. Major site is Lys-275. Sumoylation is enhanced by PIAS3 (By similarity). Desumoylated by SENP1 in tumor cells and appears to compete with ubiquitination on C-terminal sites.,PTM:Ubiquitinated. Appears to compete with sumoylation on C-terminal sites.,similarity:Belongs to the IRF family.,similarity:Contains 1 tryptophan pentad repeat DNA-binding domain.,





Background

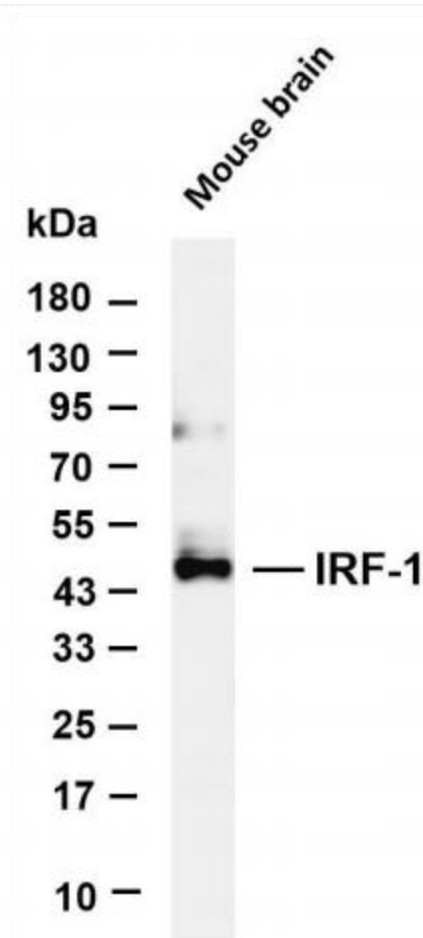
IRF1 encodes interferon regulatory factor 1, a member of the interferon regulatory transcription factor (IRF) family. IRF1 serves as an activator of interferons alpha and beta transcription, and in mouse it has been shown to be required for double-stranded RNA induction of these genes. IRF1 also functions 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. [provided by RefSeq, Jul 2008],

matters needing attention

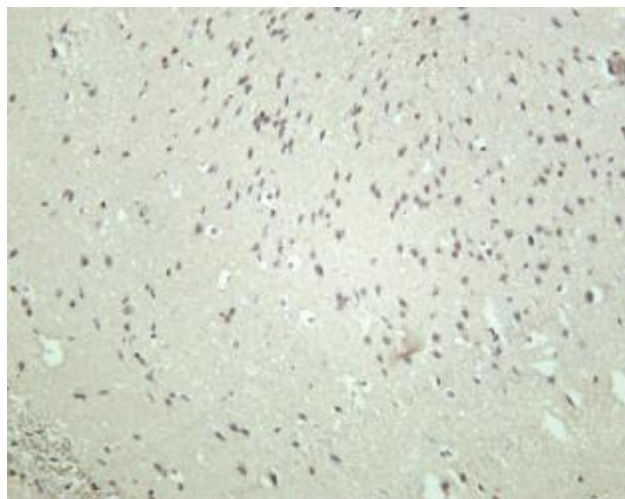
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

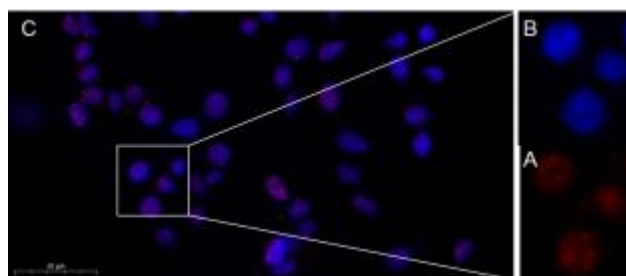


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-IRF-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Mouse brain Predicted band size: 37kDa Observed band size: 48kDa



Rat brain was stained with anti-IRF-1 rabbit antibody





Immunofluorescence analysis of MCF7 . Picture A: IRF-1 Rabbit mAb (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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