

IRF2 ABfinity™

Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700226

(See product label for lot information)



Clone/PAD: B-80 H53L46
Isotype: IgG
Gene ID: 3660
Protein Acc. no.: P14316
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB and IF

Reactivity

This antibody is specific for human, rat and mouse IRF2

Immunogen

recombinant protein

Immunogen sequence

aminoacids 121-270

Expected Reactivity

Based on sequence identity and similarity, reactivity to bovine is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

IRF2 belongs to the interferon regulatory factor family. IRF2 regulates the transcription regulation important to cell proliferation (1) as well as immune responses by binding to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) and repression of those genes (2). However, IRF2 also functions as a transcriptional activator of histone H4 by interactions with NF-kappa B (3).

References

1. Ichikawa, E., Hida, S., Omatsu, Y., Shimoyama, S., Takahara, K., Miyagawa, S., Inaba, K. and Taki S. (2004) Defective development of splenic and epidermal CD4+ dendritic cells in mice deficient for IFN regulatory factor-2. *Proc. Natl Acad. Sci.* 101: 3909-3914
2. Harada, H., Fujita, T., Miyamoto, M., Kimura, Y., Maruyama, M., Furia, A., Miyata, T. and Taniguchi, T. (1989). Structurally similar but functionally distinct factors, IRF-1 and IRF-2, bind to the same regulatory elements of IFN and IFN-inducible genes. *Cell* 58: 729-739.
3. Drew, P.D., Franzoso, G., Carlson, L.M. Biddison, W.E., Siebenlist, U., and Ozato, K. (1996). Interferon regulatory factor-2 physically interacts with NF-kappa B in vitro and inhibits NF-kappa B induction of major histocompatibility class I and beta 2-microglobulin gene expression in transfected human neuroblastoma cells. *J. Neuroimmunol.* 63: 157-162

Applications:

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

	Species	Test Material	Concentration
Western Blotting	human	HeLa	1-5 µg/ml
Immunofluorescence	human	HeLa	5 µg/ml

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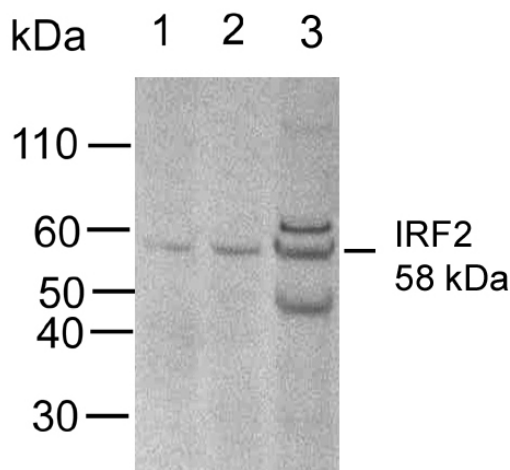
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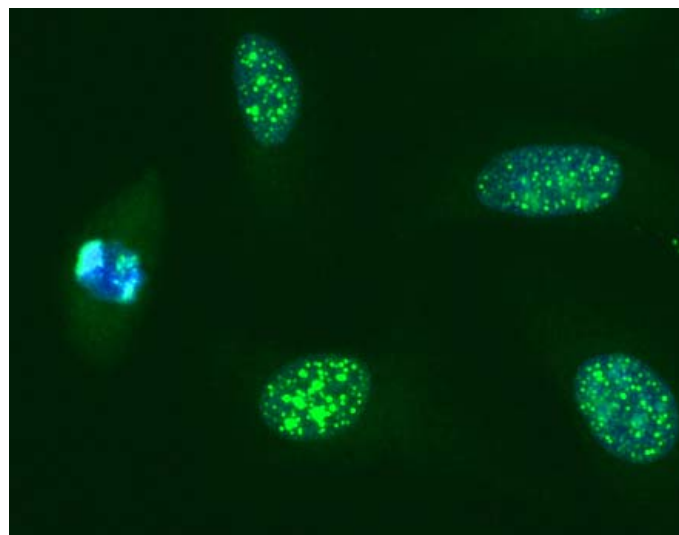
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Western blot of HeLa cell lysate using rabbit anti-IRF2 (Cat. No. 700226).

Rabbit anti-IRF2 (2 µg/ml) was used to label IRF2 in different cell and tissue lysates. Each lane was loaded with 30 µg of lysate. The following lysates were loaded: mouse lymphnode (1), rat thymus (2) and HeLa (3). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No. WB7105).



Immunocytochemistry of HeLa cells labeled with rabbit anti-IRF2 (Cat. No. 700226).

HeLa cells were labeled with rabbit anti-IRF2 (5 µg/ml) using Alexa Fluor® 488 goat anti-rabbit as the secondary antibody (Cat. No. A11008), at a 1:1000 dilution. Cells were fixed using methanol fixation. The nuclear localization of IRF2 is shown in green, while nuclei were stained using SlowFade® GOLD with DAPI (Cat. No. S36938), shown in blue.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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