

Datasheet: MCA2700

Description:	MOUSE ANTI HUMAN IRF3
Specificity:	IRF3
Other names:	INTERFERON REGULATORY FACTOR 3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3F10
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/1000 - 1/3000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Sodium Azide (NaN ₃) 10% Glycerol
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen Recombinant human IRF3 (amino acids 108-166) purified from *E. coli*.

External Database Links

UniProt:

[Q14653](#) [Related reagents](#)

Entrez Gene:

[3661](#) IRF3 [Related reagents](#)

RRID AB_2126994

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity **Mouse anti Human IRF3 antibody, clone 3F10** recognizes human interferon regulatory factor 3 (IRF3), a ~55 kDa constitutively expressed member of the IRF family, which acts as vital regulator of gene expression in innate immunity ([Nociari *et al.* 2007](#)).

IRF3 accumulates in an inactive form in the cytoplasm and then translocates to the nucleus as a homodimer, following stimuli-induced phosphorylation of specific serine/threonine residues. Association of the homodimer with p300/CBP (CREBB binding protein) forms dsRNA-activated factor 1 (DRAF1), which then activates the transcription of interferon alpha and beta and subsequent downstream interferon-induced genes ([Weaver *et al.* 1998](#)).

Western Blotting MCA2700 detects a band of approximately 55kDa in HeLa cell lysates.

Further Reading 1. Takahasi, K. *et al.* (2003) X-ray crystal structure of IRF-3 and its functional implications. [Nat Struct Biol. 10 \(11\): 922-7.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2700>
10049

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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