

Datasheet: MCA2701

Description:	MOUSE ANTI HUMAN IRF5
Specificity:	IRF5
Other names:	INTERFERON REGULATORY FACTOR 5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10T1
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 (1)	■			1/50
ELISA	■			
Immunoprecipitation	■			
Western Blotting	■			1/1000 - 1/2000

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Histidine-tagged recombinant peptide corresponding to amino acids 176-240 of human IRF5, purified from <i>E. coli</i> .

**External Database
Links**

UniProt:

[Q13568](#)

[Related reagents](#)

Entrez Gene:

[3663](#)

IRF5

[Related reagents](#)

Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
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Specificity	Mouse anti Human IRF5 antibody, clone 10T1 recognises human interferon regulatory factor 5 (IRF5), a 58kDa member of the IRF family which acts as a key regulator of interferon gene transcription, and is expressed in B cells and dendritic cells, and is inducible by type I interferon (IFN) in most lymphoid cells.
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The role of IRF3 and IRF7 as transcriptional mediators of virus- and IFN-induced signaling pathways is well documented. Studies have shown that IRF5 can also regulate IFN gene transcription, but appears to be more restricted in its cellular expression and range of viral stimuli, and has the ability to induce a wide range of chemokines involved in T-lymphocyte recruitment, including RANTES, MCP-1 and IP-10 ([Barnes *et al.* 2002](#)).

Histology Positive Control Tissue	Human Colon
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Western Blotting	MCA2701 detects a band of approximately 58kDa in THP-1 cell lysates.
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References	1. Pabois, A. <i>et al.</i> (2016) Notch signaling mediates crosstalk between endothelial cells and macrophages via Dll4 and IL6 in cardiac microvascular inflammation. Biochem Pharmacol. 104: 95-107.
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Further Reading	1. Barnes, B.J. <i>et al.</i> (2002) Multiple regulatory domains of IRF-5 control activation, cellular localization, and induction of chemokines that mediate recruitment of T lymphocytes. Mol Cell Biol. 22 (16): 5721-40.
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10303 available at: 10303: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	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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