

## Datasheet: MCA2701

<b>Description:</b>	MOUSE ANTI HUMAN IRF5
<b>Specificity:</b>	IRF5
<b>Other names:</b>	INTERFERON REGULATORY FACTOR 5
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	10T1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Histidine-tagged recombinant peptide corresponding to amino acids 176-240 of human IRF5, purified from <i>E. coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13568</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3663</a>    IRF5    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_906072
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human IRF5 antibody, clone 10T1</b> recognizes human interferon regulatory factor 5 (IRF5), a ~58 kDa 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.</p> <p>The role of IRF3 and IRF7 as transcriptional mediators of virus- and IFN-induced signaling pathways is well documented. 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 (<a href="#">Barnes <i>et al.</i> 2002</a>).</p>
<b>Histology Positive Control Tissue</b>	Human Colon
<b>Western Blotting</b>	MCA2701 detects a band of approximately 58kDa in THP-1 cell lysates.
<b>References</b>	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. <a href="#">Biochem Pharmacol. 104: 95-107.</a>
<b>Further Reading</b>	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. <a href="#">Mol Cell Biol. 22 (16): 5721-40.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## 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 \(MCA928\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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