

## IRF4 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant IRF4.

Catalog # AT2544a

### Product Information

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<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">Q15306</a>
<b>Other Accession</b>	<a href="#">NM_002460</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	2F2
<b>Calculated MW</b>	51772

### Additional Information

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<b>Gene ID</b>	3662
<b>Other Names</b>	Interferon regulatory factor 4, IRF-4, Lymphocyte-specific interferon regulatory factor, LSIRF, Multiple myeloma oncogene 1, NF-EM5, IRF4, MUM1
<b>Target/Specificity</b>	IRF4 (NP_002451, 342 a.a. ~ 451 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	IRF4 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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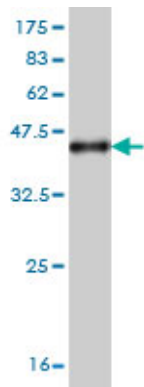
The protein encoded by this gene belongs to the IRF (interferon regulatory factor) family of transcription factors, characterized by a unique tryptophan pentad repeat DNA-binding domain. The IRFs are important in the regulation of interferons in response to infection by virus, and in the regulation of interferon-inducible genes. This family member is lymphocyte specific and negatively regulates Toll-like-receptor (TLR) signaling that is central to the activation of innate and adaptive immune systems. A chromosomal translocation involving this gene and the IgH locus, t(6;14)(p25;q32), may be a cause of multiple myeloma. Alternatively spliced transcript variants have been found for this gene.

### References

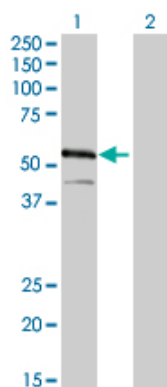
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Interferon-regulatory factor 4 is essential for the developmental program of T helper 9 cells. Staudt V, et al. Immunity, 2010 Aug 27. PMID 20674401. Melanocytic nevi, nevus genes, and melanoma risk in a large case-control study in the United Kingdom. Newton-Bishop JA, et al. Cancer Epidemiol Biomarkers Prev, 2010 Aug. PMID 20647408. IRF4 variants have age-specific effects on nevus count and predispose to melanoma. Duffy DL, et al. Am J Hum Genet, 2010 Jul 9. PMID 20602913. Examination of genetic polymorphisms in newborns for signatures of sex-specific prenatal selection. Ucisik-Akkaya E, et al. Mol Hum Reprod, 2010 Oct. PMID 20587610. Web-based, participant-driven studies yield novel genetic associations for common traits. Eriksson N, et al. PLoS Genet, 2010 Jun 24. PMID 20585627.

## Images

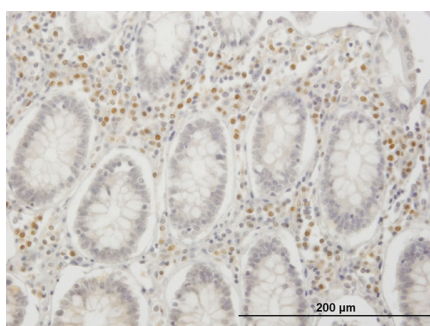


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .

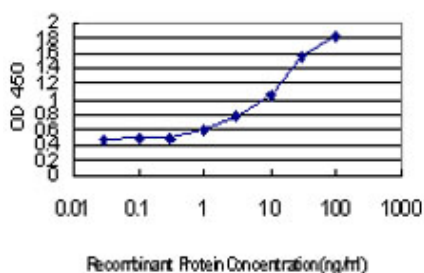


Western Blot analysis of IRF4 expression in transfected 293T cell line by IRF4 monoclonal antibody (M02), clone 2F2.

Lane 1: IRF4 transfected lysate (51.8 KDa).  
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to IRF4 on formalin-fixed paraffin-embedded human colon. [antibody concentration 0.3 ug/ml]



Detection limit for recombinant GST tagged IRF4 is approximately 0.03 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.