10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IRF4 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant IRF4.
Catalog # AT2545a

Product Information

Application	WB, IF, E
Primary Accession	Q15306
Other Accession	NM_002460
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2D1
Calculated MW	51772

Additional Information

Gene ID	3662
Other Names	Interferon regulatory factor 4, IRF-4, Lymphocyte-specific interferon regulatory factor, LSIRF, Multiple myeloma oncogene 1, NF-EM5, IRF4, MUM1
Target/Specificity	IRF4 (NP_002451, 342 a.a. ~ 451 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	IRF4 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

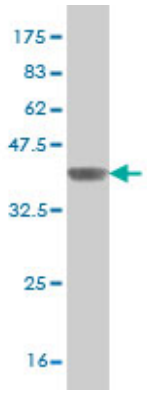
Background

The protein encoded by this gene belongs to the IRF (interferon regulatory factor) family of transcription factors, characterized by an 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.

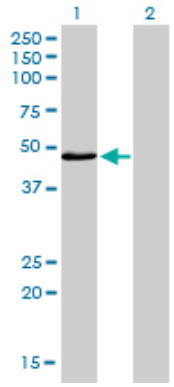
References

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

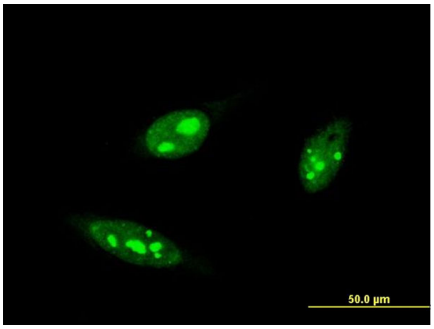


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

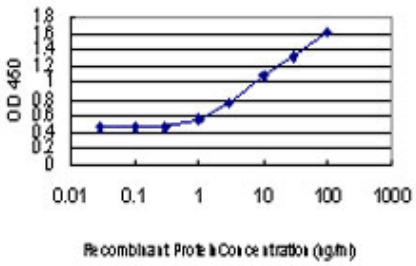


Western Blot analysis of IRF4 expression in transfected 293T cell line by IRF4 monoclonal antibody (M05), clone 2D1.

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

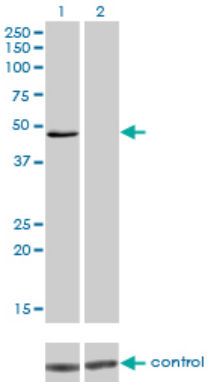


Immunofluorescence of monoclonal antibody to IRF4 on HeLa cell . [antibody concentration 10 ug/ml]



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

Western blot analysis of IRF4 over-expressed 293 cell line,



cotransfected with IRF4 Validated Chimera RNAi ((Cat # AT2545a)

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