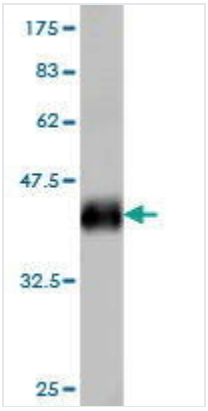
IRF2 Antibody – Mouse Monoclonal

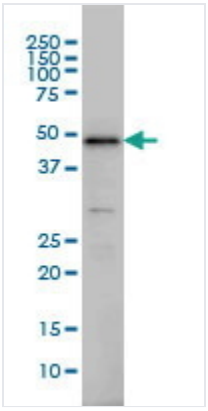
PRODUCT OVERVIEW

Product Name	IRF2, Monoclonal Antibody
Full Product Name	IRF2 (IRF-2, Interferon Regulatory Factor 2) (Biotin)
Product Gene Name	anti-IRF2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.4. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human IRF2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	15 kDa (133 aa), confirmed by MALDI-TOF.
OMIM	147576
3D Structure	ModBase 3D Structure for P14316
Immunogen	Partial recombinant protein corresponding to aa216-315 from human IRF2 (NM_002199; NP_002190) with GST tag. MW of the GST tag alone is 26kD
Immunogen Sequence	MSELYPLQISPVSSYAESETTDSVPSDEESAEGRPHWRKRNIEGKQYLSNMGTRGSYLLPGMASFVTSNKPDLQVTIKEESNPVPYNSSWPPFQDLPLS
Conjugate	Biotin
Product Categories/Family for anti-IRF2 antibody	Antibodies; Interferon
Applications Tested/Suitable for anti-IRF2 antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-IRF2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IRF2 antibody	IRF2BP2 encodes an interferon regulatory factor-2 (IRF2) binding protein that interacts with the C-terminal transcriptional repression domain of IRF2. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq].

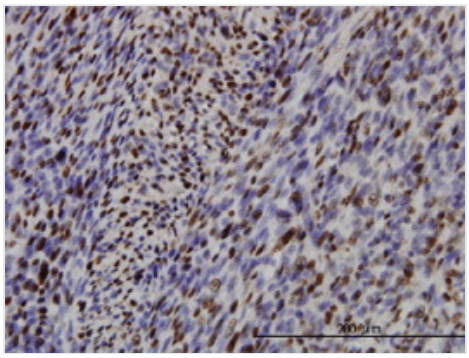
Other Notes	Small volumes of anti-IRF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IRF2 purchase	MBS6142506 is an antibody targeting IRF2. Also known as IRF2 (IRF-2, Interferon Regulatory Factor 2) (Biotin). Reactive in Human. Host: Mouse.



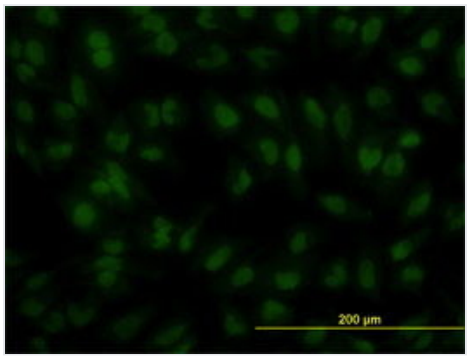
Western Blot (WB) of anti-IRF2 antibody
Western Blot detection against Immunogen (36.74kD).



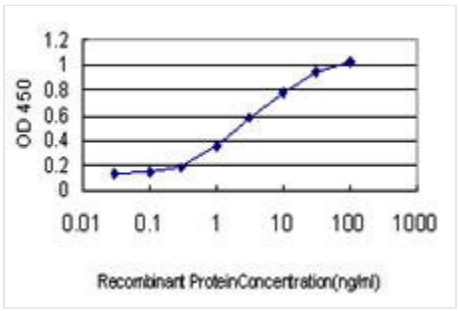
Western Blot (WB) of anti-IRF2 antibody
Western Blot analysis of IRF2 expression in Hela NE using 128582.



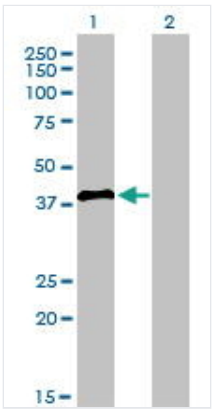
Immunohistochemistry (IHC) of anti-IRF2 antibody
Immunoperoxidase in formalin-fixed paraffin-embedded human leiomyosarcoma usign 128582 (3ug/ml).



Immunofluorescence (IF) of anti-IRF2 antibody
Immunofluorescence in HeLa cells using 128582 (10ug/ml).



Testing Data of anti-IRF2 antibody
Detection limit for 128582 is ~0.1ng/ml as a capture antibody.



Western Blot (WB) of anti-IRF2 antibody
Western Blot analysis of IRF2 expression in transfected 293T cell line by IRF2 monoclonal antibody. Lane 1: IRF2 transfected lysate (39.4kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF2. It may not necessarily be applicable to this product.

NCBI GI #	153082752

NCBI GeneID	3660
NCBI Accession #	NP_002190
UniProt Primary Accession #	P14316
UniProt Secondary Accession #	Q6IAS7; Q96B99; D6RCK5; H0Y8S3
UniProt Related Accession #	P14316
GenBank Nucleotide #	NM_002199
NCBI Official Full Name	interferon regulatory factor 2
NCBI Official Synonym Full Names	interferon regulatory factor 2
NCBI Official Symbol	IRF2
NCBI Official Synonym Symbols	IRF-2
UniProt Protein Name	Interferon regulatory factor 2
Protein Family	Interferon regulatory factor
UniProt Gene Name	IRF2
UniProt Synonym Gene Names	IRF-2
UniProt Entry Name	IRF2_HUMAN
NCBI Protein Information	interferon regulatory factor 2
NCBI Summary for IRF2	IRF2 encodes interferon regulatory factor 2, a member of the interferon regulatory transcription factor (IRF) family. IRF2 competitively inhibits the IRF1-mediated transcriptional activation of interferons alpha and beta, and presumably other genes that employ IRF1 for transcription activation. However, IRF2 also functions as a transcriptional activator of histone H4. [provided by RefSeq, Jul 2008]
UniProt Comments for IRF2	IRF2: Specifically binds to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) and represses those genes. Also acts as an activator for several genes including H4 and IL7. Constitutively binds to the ISRE promoter to activate IL7. Involved in cell cycle regulation through binding the site II (HiNF-M) promoter region of H4 and activating transcription during cell growth. Antagonizes IRF1 transcriptional activation. Interacts with BRD7, IRF2BP1 and IRF2BP2. Interacts with CREBBP in growing cells; the interaction acetylates IRF2 and regulates IRF2-dependent H4 promoter activity. By viruses and IFN. Expressed throughout the epithelium of the colon. Also expressed in lamina propria. Belongs to the IRF family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 4q34.1-q35.1 Cellular Component: nucleoplasm; focal adhesion; cytoplasm; cytosol Molecular Function: protein binding; DNA binding; transcription factor activity Biological Process: cell proliferation; regulation of transcription, DNA-dependent; transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; blood coagulation
Research Articles on IRF2	**1.** The effects of IRF2 suppresses non-small cell lung cancer by promoting cell apoptosis, inhibiting cell proliferation and migration ability.
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