Phospho-IRF9 (Ser139) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	IRF9, Blocking Peptide
Full Product Name	Phospho-IRF9 (Ser139) Blocking Peptide
Product Gene Name	IRF9 blocking peptide
Product Synonym Names	IFN alpha responsive transcription factor subunit; IFN-alpha-responsive transcription factor subunit; Interferon regulatory factor 9; interferon stimulated transcription factor 3; Interferon-stimulated gene factor 3 gamma; interferon-stimulated transcription factor 3, gamma 48kDa; IRF 9; IRF-9; Irf9; IRF9_HUMAN; ISGF 3 gamma; ISGF-3 gamma; ISGF3; ISGF3 p48 subunit; ISGF3G; OTTHUMP00000164692; OTTHUMP00000164693; p48; Transcriptional regulator ISGF3 subunit gamma
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	IRF9 (Ser139) peptide (MBS9615974) is used for blocking the activity of IRF9 (Ser139) antibody (MBS9612693)
Molecular Weight	393
OMIM	147574
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for IRF9 blocking peptide	Blocking/Control
Related Product Information for IRF9 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of IRF9 blocking peptide 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 IRF9 purchase	MBS9615974 is a blocking peptide targeting IRF9. Also known as Phospho-IRF9 (Ser139) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF9. It may not necessarily be applicable to this product.

NCBI GI #	266392
NCBI GeneID	10379
NCBI Accession #	Q00978.1

UniProt Primary Accession #	Q00978
UniProt Secondary Accession #	D3DS61
UniProt Related Accession #	Q00978
NCBI Official Full Name	Interferon regulatory factor 9
NCBI Official Synonym Full Names	interferon regulatory factor 9
NCBI Official Symbol	IRF9
NCBI Official Synonym Symbols	p48; IRF-9; ISGF3; ISGF3G
UniProt Protein Name	Interferon regulatory factor 9
UniProt Synonym Protein Names	IFN-alpha-responsive transcription factor subunit; ISGF3 p48 subunit; Interferon-stimulated gene factor 3 gamma; ISGF-3 gamma; Transcriptional regulator ISGF3 subunit gamma
Protein Family	Interferon regulatory factor
UniProt Gene Name	IRF9
UniProt Synonym Gene Names	ISGF3G; IRF-9; ISGF-3 gamma
UniProt Entry Name	IRF9_HUMAN
NCBI Protein Information	interferon regulatory factor 9; ISGF-3 gamma; ISGF3 p48 subunit; interferon-stimulated gene factor 3 gamma; transcriptional regulator ISGF3 subunit gamma; IFN-alpha-responsive transcription factor subunit; interferon-stimulated transcription factor 3, gam
UniProt Comments for IRF9	IRF9: Transcription regulatory factor that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. Belongs to the IRF family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; cell surface receptor linked signal transduction; regulation of transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; interferon type I biosynthetic process; defense response to virus
Research Articles on IRF9	**1.** IL6 is an inducer of IRF9 expression in prostate cancer and a sensitizer for the antiproliferative effects of IFNalpha2.
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