Phospho-IRF3 (Ser14) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	IRF-3, Blocking Peptide
Full Product Name	Phospho-IRF3 (Ser14) Blocking Peptide
Product Gene Name	IRF-3 blocking peptide
Product Synonym Names	IIAE7; Interferon regulatory factor 3; IRF 3; IRF-3; IRF3; IRF3_HUMAN; MGC94729
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	IRF3 (Ser14) peptide (MBS9618467) is used for blocking the activity of IRF3 (Ser14) antibody (MBS9610749)
Molecular Weight	47,219 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (50162826..50169132, complement). Location: 19q13.3-q13.4
OMIM	603734
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 IRF-3 blocking peptide	Blocking/Control
Related Product Information for IRF-3 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 IRF-3 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 IRF-3 purchase	MBS9618467 is a blocking peptide targeting IRF-3. Also known as Phospho-IRF3 (Ser14) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF-3. It may not necessarily be applicable to this product.

NCBI GI #	308199450
NCBI GeneID	3661
NCBI Accession #	NP_001184053.1
UniProt Primary Accession #	Q14653

UniProt Secondary Accession #	Q5FBY1; A8K7L2
UniProt Related Accession #	Q14653
GenBank Nucleotide #	NP_001184053.1
NCBI Official Full Name	interferon regulatory factor 3 isoform 4
NCBI Official Synonym Full Names	interferon regulatory factor 3
NCBI Official Symbol	IRF3
UniProt Protein Name	Interferon regulatory factor 3
Protein Family	Interferon regulatory factor
UniProt Gene Name	IRF3
UniProt Synonym Gene Names	IRF-3
UniProt Entry Name	IRF3_HUMAN
NCBI Protein Information	interferon regulatory factor 3
NCBI Summary for IRF-3	This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for IRF-3	IRF3: interferon regulatory factor 3, a member of the interferon regulatory transcription factor (IRF) family. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 19q13.3-q13.4 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: identical protein binding; protein binding; protein homodimerization activity; DNA binding; transcription cofactor activity; transcription factor activity Biological Process: negative regulation of interferon-beta biosynthetic process; transcription from RNA polymerase II promoter; positive regulation of I-kappaB kinase/NF-kappaB cascade; viral reproduction; apoptosis; cytokine and chemokine mediated signaling pathway; MyD88-independent toll-like receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; toll-like receptor 3 signaling pathway; negative regulation of defense response to virus by host; response to exogenous dsRNA; positive regulation of interferon type I production; lipopolysaccharide-mediated signaling pathway; positive regulation of interferon-beta production; toll-like receptor signaling pathway; innate immune response; interferon type I biosynthetic process; toll-like receptor 4 signaling pathway; response to DNA damage stimulus; negative regulation of interferon type I production; defense response to virus; positive regulation of interferon-alpha production; positive regulation of cytokine secretion Disease: Herpes Simplex Encephalitis, Susceptibility To, 7
Research Articles on IRF-3	**1.** Ultraviolet radiation also upregulated mitogen-activated protein kinases and nuclear factor-kappaB/p65 expression via Toll-like receptor 2 and Toll-like receptor 4, and upregulated interferon regulatory factor-3 expression
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