IRF3 (Ps385) Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	IRF3, Blocking Peptide
Full Product Name	IRF3 (pS385) Blocking Peptide
Product Gene Name	IRF3 blocking peptide
Product Synonym Names	Interferon regulatory factor 3; IRF-3
Host	Synthetic
Species Reactivity	Human, Mouse, Bovine, Pig
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	IRF3 peptide (MBS8243334) is used for blocking the activity of IRF3 antibody (MBS8241641)
Molecular Weight	12,330 Da
OMIM	603734
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for IRF3 blocking peptide	Blocking (BL)
Application Notes for IRF3 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for IRF3 blocking peptide	MBS8243334 is a blocking peptide targeting IRF3. Also known as IRF3 (pS385) Blocking Peptide. Reactive in Human, Mouse, Bovine, Pig. Host: Synthetic. The peptide is used to block Anti-IRF3 reactivity.
Other Notes	Small volumes of IRF3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF3. It may not necessarily be applicable to this product.

NCBI GI #	2497442
NCBI GeneID	3661
NCBI Accession #	Q14653.1
UniProt Primary Accession #	Q14653
UniProt Secondary Accession #	Q5FBY1; Q5FBY2; Q5FBY4; Q7Z5G6; A8K7L2; B2RAZ3
UniProt Related Accession #	Q14653
NCBI Official Full Name	Interferon regulatory factor 3
NCBI Official Synonym Full Names	interferon regulatory factor 3
NCBI Official Symbol	IRF3

NCBI Official Synonym Symbols	IIAE7
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 IRF3	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 IRF3	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: cytoplasm; cytosol; nucleoplasm; nucleus Molecular Function: DNA binding; identical protein binding; protein binding; protein homodimerization activity; transcription cofactor activity Biological Process: apoptosis; cytokine and chemokine mediated signaling pathway; defense response to virus; innate immune response; interferon type I biosynthetic process; lipopolysaccharide-mediated signaling pathway; MyD88-independent toll-like receptor signaling pathway; negative regulation of interferon type I production; negative regulation of transcription from RNA polymerase II promoter; positive regulation of cytokine secretion; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of interferon type I production; positive regulation of interferon-alpha production; positive regulation of interferon-beta production; response to DNA damage stimulus; response to exogenous dsRNA; toll-like receptor 3 signaling pathway; toll-like receptor 4 signaling pathway; toll-like receptor signaling pathway; transcription from RNA polymerase II promoter; viral reproduction Disease: Herpes Simplex Encephalitis, Susceptibility To, 7
Research Articles on IRF3	**1.** TEL-AML1 fusion protein blocks B-cell differentiation and downregulates the IRF3-IFNalpha/beta pathway by modulating expression and phosphorylation of IRF3 in human primary hematopoietic precursor cells.
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