FRA2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Fra 2 (FRA-2), Blocking Peptide
Full Product Name	FRA2 Blocking Peptide
Product Gene Name	FRA-2 blocking peptide
Product Synonym Gene Name	FOSL2
Product Synonym Names	FLJ23306; Fos L2; FOS like antigen 2; Fos related antigen 2; Fos-related antigen 2; FosL 2; Fosl2; FOSL2_HUMAN; FRA 2
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	FRA2 peptide (MBS9617049) is used for blocking the activity of FRA2 antibody (MBS9601517)
Molecular Weight	35,193 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (28615779..28637516). Location: 2p23.3
OMIM	601575
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 FRA-2 blocking peptide	Blocking/Control
Related Product Information for FRA-2 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 FRA-2 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 FRA-2 purchase	MBS9617049 is a blocking peptide targeting FRA-2. Also known as FRA2 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FRA-2. It may not necessarily be applicable to this product.

NCBI GI #	4885245
NCBI GeneID	2355
NCBI Accession #	NP_005244.1
UniProt Primary Accession #	P15408

UniProt Secondary Accession #	Q6FG46; B2RD58; B3KP27; B4DYV4
UniProt Related Accession #	P15408
GenBank Nucleotide #	NM_005253.3
NCBI Official Full Name	fos-related antigen 2
NCBI Official Synonym Full Names	FOS-like antigen 2
NCBI Official Symbol	FOSL2
NCBI Official Synonym Symbols	FRA2
UniProt Protein Name	Fos-related antigen 2
Protein Family	Fos-related antigen
UniProt Gene Name	FOSL2
UniProt Synonym Gene Names	FRA2; FRA-2
UniProt Entry Name	FOSL2_HUMAN
NCBI Protein Information	fos-related antigen 2; FRA-2
NCBI Summary for FRA-2	The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. [provided by RefSeq, Jul 2008]
UniProt Comments for FRA-2	FRA2: an oncogenic transcription factor of the bZIP family, Fos subfamily. The expression of Fos proteins is rapidly and transiently induced by a variety of extracellular stimuli including growth factors, cytokines, neurotransmitters, polypeptide hormones, and stress. Fos proteins dimerize with Jun proteins (c-Jun, JunB, and JunD) to form Activator Protein-1 (AP-1), a transcription factor that binds to TRE/AP-1 elements and activates transcription. Fos and Jun proteins contain the leucine-zipper motif that mediates dimerization and an adjacent basic domain that binds to DNA. The various Fos/Jun heterodimers differ in their ability to transactivate AP-1 dependent genes. In addition to increased expression, phosphorylation of Fos proteins by Erk kinases in response to extracellular stimuli may further increase transcriptional activity. Following growth factor stimulation, expression of FosB and c-Fos in quiescent fibroblasts is immediate but short-lived, while FRA1 and FRA2 expression persists longer. FRA2 and JUND up-regulate the expression of CCR4, MYB, MDM2, and BCL6, and are expressed at high levels in CCR4-expressing mature T-cell malignancies such as adult T-cell leukemia/lymphoma (ATLL) and cutaneous T-cell lymphomas (CTCLs). May play a role in regulating the transcription of ICOS downstream of TCR/CD28 and cytokine receptor signaling. Its transcription is significantly increased in metastatic clear cell renal cell carcinomas. Belongs to the bZIP family, Fos subfamily. Three isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 2p23.3 Cellular Component: nucleoplasm; nucleus Molecular Function: double-stranded DNA binding; transcription factor activity Biological Process: response to drug; cell death; regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter; positive regulation of fibroblast proliferation; response to cAMP; response to mechanical stimulus; response to morphine; female pregnancy; response to progesterone stimulus; cellular response to hormone stimulus; response to corticosterone stimulus
Research Articles on FRA-2	**1.** This study suggests that Fra-2 transgenic mice as an animal model of systemic sclerosis-associated pulmonary arterial hypertension display main characteristic features of the human disease.
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