FOSL2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FOSL2, Recombinant Protein
Full Product Name	Recombinant Human FOSL2
Product Gene Name	FOSL2 recombinant protein
Product Synonym Names	FOS like antigen 2; Fos related antigen 2; FOSL2; FRA 2; FRA2
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 85% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	35,193 Da
Sequence Positions	212-326
Chromosome Location	Chromosome: 2; NC_000002.11 (28615779..28637516). Location: 2p23.3
OMIM	601575
3D Structure	ModBase 3D Structure for P15408
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for FOSL2 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for FOSL2 recombinant protein	MBS7613488 is a recombinant protein targeting FOSL2. Also known as Recombinant Human FOSL2. Host: E Coli.
Other Notes	Small volumes of FOSL2 recombinant protein 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 FOSL2. 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 FOSL2	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 FOSL2	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 FOSL2	**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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