SAFB Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SAFB, Blocking Peptide
Full Product Name	SAFB Antibody (N-term) Blocking Peptide
Product Gene Name	SAFB blocking peptide
Product Synonym Gene Name	HAP; HET; SAFB1
Product Synonym Names	Scaffold attachment factor B1; SAF-B; SAF-B1; HSP27 estrogen response element-TATA box-binding protein; HSP27 ERE-TATA-binding protein; SAFB; HAP; HET; SAFB1
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 1 mg/ml.
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	SAFB peptide (MBS9222512) is used for blocking the activity of SAFB antibody (MBS9204907)
Molecular Weight	102,768 Da
OMIM	602895
Cellular Location	Nucleus.
Tissue Location	Ubiquitous. Expressed at high levels in the CNS and at low levels in the liver. Expressed in a wide number of breast cancer cell lines
Related Product Information for SAFB blocking peptide	Binds to scaffold/matrix attachment region (S/MAR) DNA and forms a molecular assembly point to allow the formation of a 'transcriptosomal' complex (consisting of SR proteins and RNA polymerase II) coupling transcription and RNA processing (By similarity). Can function as an estrogen receptor corepressor and can also bind to the HSP27 promoter and decrease its transcription. When associated with RBMX, binds to and stimulates transcription from the SREBF1 promoter (By similarity). Can inhibit cell proliferation.
Other Notes	Small volumes of SAFB 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 SAFB purchase	MBS9222512 is a blocking peptide targeting SAFB. Also known as SAFB Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	116242782
NCBI GeneID	6294
NCBI Accession #	Q15424.4
UniProt Primary Accession #	Q15424
UniProt Secondary Accession #	O60406; Q59HH8; A0AV56; B7Z5B6; B7ZLP6; F5H0H3
UniProt Related Accession #	Q15424
NCBI Official Full Name	Scaffold attachment factor B1
NCBI Official Synonym Full Names	scaffold attachment factor B
NCBI Official Symbol	SAFB

NCBI Official Synonym Symbols	HAP; HET; SAF-B; SAFB1; SAB-B1; SAF-B1
UniProt Protein Name	Scaffold attachment factor B1
UniProt Synonym Protein Names	HSP27 estrogen response element-TATA box-binding protein; HSP27 ERE-TATA-binding protein
Protein Family	Scaffold attachment factor
UniProt Gene Name	SAFB
UniProt Synonym Gene Names	HAP; HET; SAFB1; SAF-B; SAF-B1; HSP27 ERE-TATA-binding protein
UniProt Entry Name	SAFB1_HUMAN
NCBI Protein Information	scaffold attachment factor B1
NCBI Summary for SAFB	This gene encodes a DNA-binding protein which has high specificity for scaffold or matrix attachment region DNA elements (S/MAR DNA). This protein is thought to be involved in attaching the base of chromatin loops to the nuclear matrix but there is conflicting evidence as to whether this protein is a component of chromatin or a nuclear matrix protein. Scaffold attachment factors are a specific subset of nuclear matrix proteins (NMP) that specifically bind to S/MAR. The encoded protein is thought to serve as a molecular base to assemble a 'transcriptosome complex' in the vicinity of actively transcribed genes. It is involved in the regulation of heat shock protein 27 transcription, can act as an estrogen receptor co-repressor and is a candidate for breast tumorigenesis. This gene is arranged head-to-head with a similar gene whose product has the same functions. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2011]
UniProt Comments for SAFB	SAFB1: Binds to scaffold/matrix attachment region (S/MAR) DNA and forms a molecular assembly point to allow the formation of a 'transcriptosomal' complex (consisting of SR proteins and RNA polymerase II) coupling transcription and RNA processing. Can function as an estrogen receptor corepressor and can also bind to the HSP27 promoter and decrease its transcription. When associated with RBMX, binds to and stimulates transcription from the SREBF1 promoter. Can inhibit cell proliferation. Protein type: RNA-binding; DNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 19p13.3-p13.2 Cellular Component: nucleoplasm; nucleus Molecular Function: double-stranded DNA binding; protein binding Biological Process: establishment and/or maintenance of chromatin architecture
Research Articles on SAFB	**1.** Single depletion of either SAFB1 or SAFB2 leads to an increase in expression of the other SAFB protein.
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