

Recombinant Human SAFB

Cat. No. SAFB-29263TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SAFB with N terminal proprietary tag; Predicted MW 35.53 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	90 amino acids
Description	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.
Molecular Weight	35.530kDa inclusive of tags
Tissue specificity	Ubiquitous. Expressed at high levels in the CNS and at low levels in the liver.

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	Expressed in a wide number of breast cancer cell lines.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DGQEDVETSLENLQDIDIMDISVLDEAEIDNGSVADCVEDDDADNLQESLSDSRELV EGEMKELPEQLQEHAIEDKETINNLDTSSSDFT
Sequence Similarities	Contains 1 RRM (RNA recognition motif) domain.Contains 1 SAP domain.
GENE INFORMATION	
Gene Name	SAFB scaffold attachment factor B [Homo sapiens]
Official Symbol	SAFB
Synonyms	SAFB; scaffold attachment factor B; scaffold attachment factor B1; HET; Hsp27 ERE TATA binding protein; SAFB1;
Gene ID	6294
mRNA Refseq	NM_001201338
Protein Refseq	NP_001188267

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MIM	602895
Uniprot ID	Q15424
Chromosome Location	19p13.3-p13.2
Function	DNA binding; RNA binding; double-stranded DNA binding; nucleotide binding; protein binding;

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