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SAFB1 Rabbit mAb

Catalog # AP76051

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	Q15424
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	102642

Additional Information

Gene ID	6294
Other Names	SAFB
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IHC-F~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

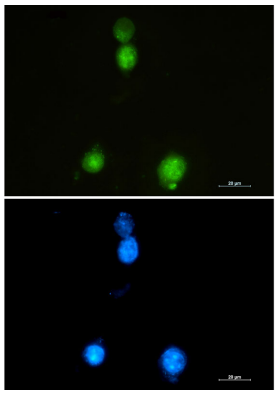
Name	SAFB
Synonyms	HAP, HET, SAFB1
Function	Binds to scaffold/matrix attachment region (S/MAR) DNA and forms a molecular assembly point to allow the formation of a 'transcriptosomal' complex (consisting of SR proteins and RNA polymerase II) coupling transcription and RNA processing (PubMed:9671816). Functions as an estrogen receptor corepressor and can also bind to the HSP27 promoter and decrease its transcription (PubMed:12660241). Thereby acts as a negative regulator of cell proliferation (PubMed:12660241). When associated with RBMX, binds to and stimulates transcription from the SREBF1 promoter (By similarity).
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

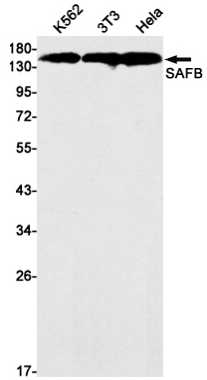
Background

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.

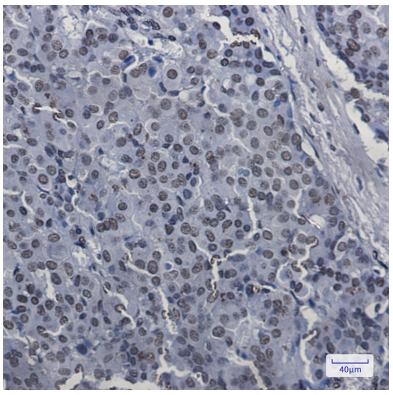
Images



Immunocytochemistry analysis of SAFB1 (green) in 293 using SAFB1 antibody,and DAPI(blue).



Western blot analysis of SAFB in K562, 3T3, Hela lysates using SAFB antibody.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using SAFB antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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