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SAFB Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant SAFB.
Catalog # AT3767a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q15424
Other Accession	NM_002967
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	5A11
Calculated MW	102642

Additional Information

Gene ID	6294
Other 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
Target/Specificity	SAFB (NP_002958, 111 a.a. ~ 200 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SAFB Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

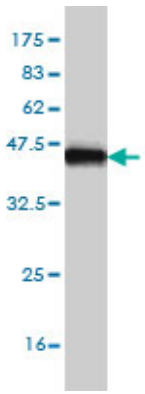
Background

This gene encodes a DNA-binding protein that 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. This 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 the heat shock protein 27 transcription and also can act as an estrogen receptor corepressor. This gene is a candidate gene for breast tumorigenesis.

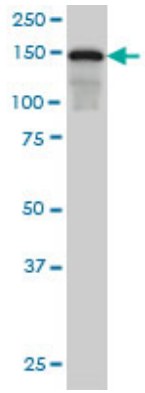
References

SAFB1 mediates repression of immune regulators and apoptotic genes in breast cancer cells. Hammerich-Hille S, et al. J Biol Chem, 2010 Feb 5. PMID 19901029.The enzymatic activity of SR protein kinases 1 and 1a is negatively affected by interaction with scaffold attachment factors B1 and 2. Tsianou D, et al. FEBS J, 2009 Sep. PMID 19674106.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Low SAFB levels are associated with worse outcome in breast cancer patients. Hammerich-Hille S, et al. Breast Cancer Res Treat, 2010 Jun. PMID 19137425.Estradiol and tamoxifen mediate rescue of the dominant-negative effects of estrogen response element-binding protein in vivo and in vitro. Chen H, et al. Endocrinology, 2009 May. PMID 19106221.

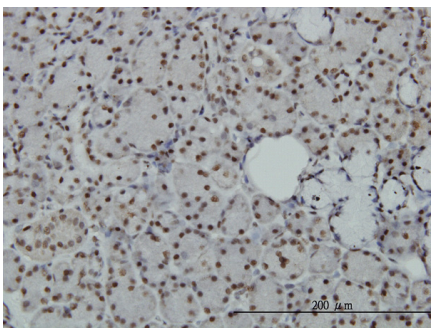
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.64 KDa) .

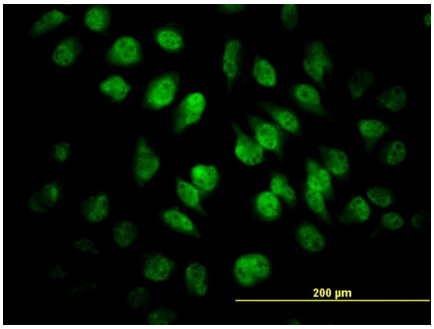


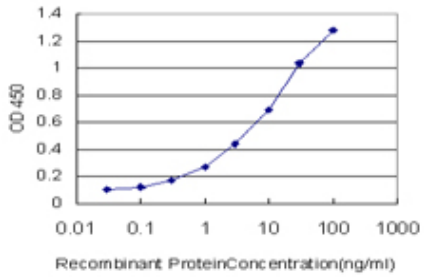
SAFB monoclonal antibody (M04), clone 5A11 Western Blot analysis of SAFB expression in Hela S3 NE ((Cat # AT3767a)



Immunoperoxidase of monoclonal antibody to SAFB on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 3 ug/ml]

Immunofluorescence of monoclonal antibody to SAFB on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged SAFB is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.