

Anti-SAFB Picoband Antibody
Catalog # ABO11713

Specification

Anti-SAFB Picoband Antibody - Product Information

Application	WB
Primary Accession	Q15424
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Scaffold attachment factor B1(SAFB) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SAFB Picoband Antibody - 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

Calculated MW

102642 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Nucleus .

Tissue Specificity

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.

Protein Name

Scaffold attachment factor B1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human SAFB (715-754aa DLDRRDDAYWPEAKRAALDERYHSDFNRQDRFHDFDHRDR), different from the related mouse and rat sequences by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-SAFB Picoband Antibody - 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

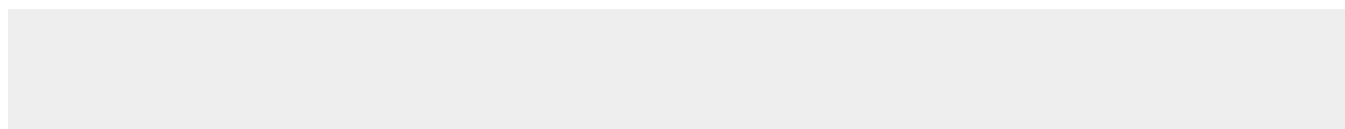
Tissue Location

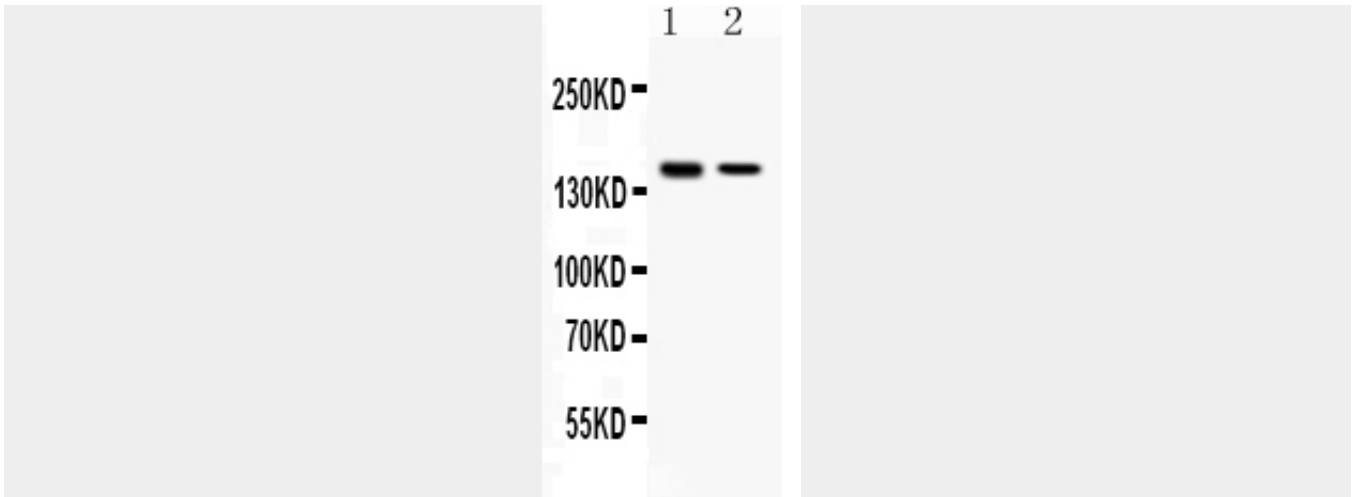
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Anti-SAFB Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SAFB Picoband Antibody - Images



Western blot analysis of SAFB expression in HELA whole cell lysates (lane 1) and MCF-7 whole cell lysates (lane 2). SAFB at 150KD was detected using rabbit anti- SAFB Antigen Affinity purified polyclonal antibody (Catalog # ABO11713) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-SAFB Picoband Antibody - Background

Scaffold attachment factor B, also known as SAFB, is a gene with homologs that have been studied in humans and mice. 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.