
Product Name: KD-Validated Scaffold Attachment Factor B Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01319

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 102.6kDa

Antigen Information

Gene Name	SAFB SAFB; Scaffold Attachment Factor B; SAFB1; HET; HSP27 Estrogen Response Element-TATA Box-Binding Protein; Hsp27 ERE-TATA Binding Protein; HSP27 ERE-TATA-Binding Protein;
Alternative Names	Scaffold Attachment Factor B1; SAF-B1; SAF-B; HAP; Heat-Shock Protein (HSP27) Estrogen Response Element And TATA Box-Binding Protein; Glutathione S-Transferase Fusion Protein; SAB-B1
Gene ID	6294.0
SwissProt ID	Q15424
Immunogen	A synthesized peptide derived from human SAFB

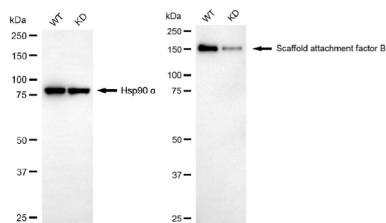
Background

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.[provided by RefSeq, Jan 2011]

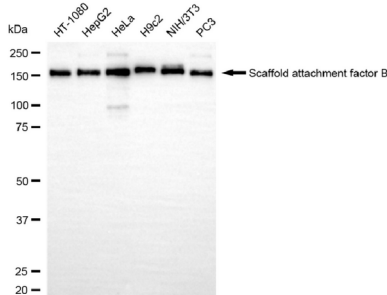
Research Area

Epigenetics and Nuclear Signaling

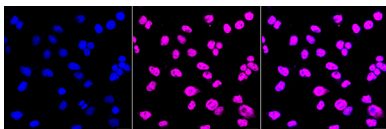
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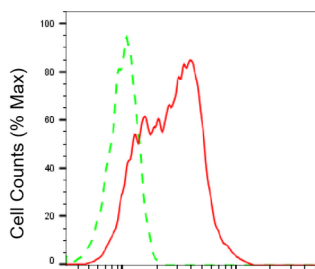
Western blotting analysis using scaffold attachment factor B antibody (KVA01319). Scaffold attachment factor B expression in wild-type (WT) and scaffold attachment factor B (SAFB) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with scaffold attachment factor B antibody (KVA01319, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using scaffold attachment factor B antibody (KVA01319). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with scaffold attachment factor B antibody (KVA01319, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Scaffold attachment factor B antibody (KVA01319, 1:1,000). Nuclei were stained blue with DAPI; Scaffold attachment factor B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Scaffold attachment factor B expression in HeLa cells using Scaffold attachment factor B antibody (KVA01319, 1:2,000). Green, isotype control; red, Scaffold attachment factor B.

Scaffold attachment factor B-Alexa Fluor® 647

