

# Immunotag™ SAF-B Monoclonal Antibody

| Antibody Specification |                                                                                                                                                                    |
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| Catalog No.            | ITM1091                                                                                                                                                            |
| Product Description    | Immunotag™ SAF-B Monoclonal Antibody                                                                                                                               |
| Size                   | 50 µg, 100 µg                                                                                                                                                      |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                      |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein         | SAF-B                                                                                                                                                              |
| Clonality              | Monoclonal                                                                                                                                                         |
| Storage/Stability      | -20°C/1 year                                                                                                                                                       |
| Application            | WB                                                                                                                                                                 |
| Recommended Dilution   | Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.                                                                                               |
| Concentration          | 1 mg/ml                                                                                                                                                            |
| Reactive Species       | Human                                                                                                                                                              |
| Host Species           | Mouse                                                                                                                                                              |
| Immunogen              | Purified recombinant human SAF-B protein fragments expressed in E.coli.                                                                                            |
| Specificity            | SAF-B Monoclonal Antibody detects endogenous levels of SAF-B protein.                                                                                              |
| Purification           | 0                                                                                                                                                                  |
| Form                   | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.                                       |
| Gene Name              | SAFB                                                                                                                                                               |
| Accession No.          | Q15424 D3YXK2                                                                                                                                                      |
| Alternate Names        | SAFB; HAP; HET; SAFB1; Scaffold attachment factor B1; SAF-B; SAF-B1; HSP27 estrogen response element-TATA box-binding protein; HSP27 ERE-TATA-binding protein      |

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| Description              | scaffold attachment factor B(SAFB) Homo sapiens 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 v |
| Protein Expression       | Brain,Cervix carcinoma,Epithelium,Liver,Mammary carcinoma,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Subcellular Localization | nucleus,nucleoplasm,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protein Function         | 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 (By similarity). Can function as an estrogen receptor corepressor and can also bind to the HSP27 promoter and decrease its transcription. Can inhibit cell proliferation.,similarity:Contains 1 RRM (RNA recognition motif) domain.,similarity:Contains 1 SAP domain.,subunit:Monomer. Can form homodimers. Interacts with KHDRBS3, POLR2A, SAFB2 or SFRS1, SFRS9 and TRA2B/SFRS10.,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.,                                                                                                                                                                        |
| Usage                    | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |