abcam

ab250016

Anti-SSBP2 antibody [EPR11520] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR11520
Purification technique	Affinity purification Protein A
Concentration	1.055 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information SSBP2

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250016 is the carrier-free version of ab177944.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity

- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Single-stranded DNA-binding protein 2 (SSBP2) also known as hSSB2 is a protein with a molecular mass of approximately 38 kDa. This protein plays a role in binding to single-stranded DNA. It is highly expressed in hematopoietic tissues including bone marrow and blood cells. SSBP2 also shows distinct expression in multiple human tissues highlighting its importance across different cellular environments. Mechanistically SSBP2 stabilizes single-stranded DNA by preventing the formation of secondary structures which is critical during DNA replication and repair.
Biological function summary	SSBP2 functions as a part of the multi-protein complex important for DNA metabolism and maintenance of genomic stability. It plays a role in the transcriptional activation of several tumor suppressor genes by interacting with other single-stranded DNA-binding partners. The protein influences cell cycle regulation by modulating the expression of genes involved in cell division and proliferation. This biological action affirms SSBP2's contribution to maintaining normal cellular functions and preventing abnormal cellular growth.
Pathways	The involvement of SSBP2 in cell cycle regulation and DNA repair underlines its participation in pathways like p53 signaling and homologous recombination. SSBP2 connects with proteins like RPA which is central to DNA metabolism to ensure accurate DNA replication and repair. These interactions place SSBP2 in a critical position to respond to and repair DNA damage thereby maintaining cellular integrity and genomic stability.
Associated diseases and disorders	SSBP2 has relevance in leukemia and breast cancer. Its reduced expression or inactivity correlates with the progression of these diseases. In leukemia SSBP2's interaction with tumor suppressor proteins such as pRB is significant. In breast cancer its dysregulation can lead to unchecked cell proliferation. Understanding these relationships provides insight into SSBP2's potential as a biomarker and therapeutic target in cancer research.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

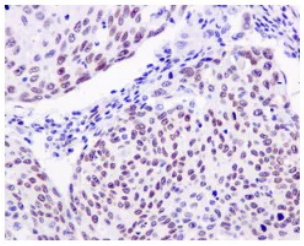
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images

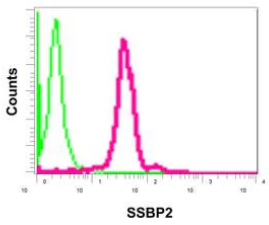


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SSBP2 antibody [EPR11520] - BSA and Azide free (ab250016)

SSBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SSBP2 antibody

This data was developed using ab177944, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human squamous cell carcinoma tissue labeling SSBP2 with ab177944 at 1/50 dilution.

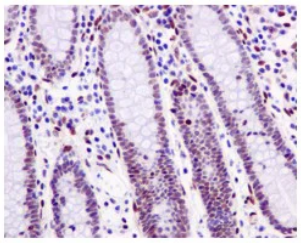
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-SSBP2 antibody [EPR11520] - BSA and Azide free (ab250016)

SSBP2 Flow Cytometry (Intracellular) staining using rabbit Anti-SSBP2 antibody

This data was developed using ab177944, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling SSBP2 with ab177944 at 1/10 dilution (red) compared to a rabbit IgG negative control (green).

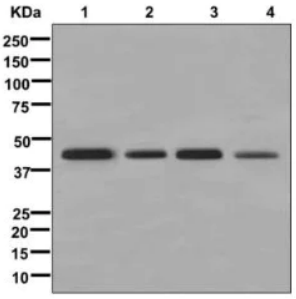


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SSBP2 antibody [EPR11520] - BSA and Azide free (ab250016)

SSBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SSBP2 antibody

This data was developed using ab177944, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling SSBP2 with ab177944 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-SSBP2 antibody [EPR11520] - BSA and Azide free (ab250016)

SSBP2 Western blot staining using rabbit Anti-SSBP2 antibody

This data was developed using ab177944, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-SSBP2 antibody [EPR11520] (ab177944) at 1/1000 dilution

Lane 1:
Jurkat cell lysate at 10 µg

Lane 2:
K562 cell lysate at 10 µg

Lane 3:
Raji cell lysate at 10 µg

Lane 4:
Fetal heart tissue lysate at 10 µg

Predicted band size: 38 kDa

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