abcam

Product datasheet

Anti-SS18 antibody [EPR23636-98] ab254405

KO VALIDATED Recombinant RabMAb

8 Images

Overview

Product name	Anti-SS18 antibody [EPR23636-98]
Description	Rabbit monoclonal [EPR23636-98] to SS18
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB, IHC-P **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, MCF7, HEK-293T, NIH/3T3, C6 and Neuro-2a whole cell lysates. IHC-P: Human cervical carcinoma and synovial sarcoma tissue; Mouse colon tissue; rat cardiac muscle tissue. IP: HeLa whole cell lysate.
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23636-98

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab254405 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/30.
WB		1/1000. Detects a band of approximately 45, 55 kDa (predicted molecular weight: 46 kDa).
IHC-P		1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isoform 1 and isoform 2 function in general transcriptional coactivation.

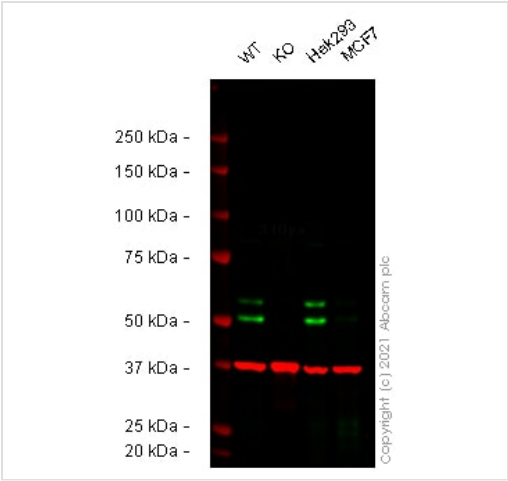
Tissue specificity Fairly ubiquitously expressed. Expressed in synovial sarcomas and in other human cell lines. The fusion genes SSXT-SSX1 and SSXT-SSX2 are expressed only in synovial sarcomas.

Involvement in disease Note=A chromosomal aberration involving SS18 may be a cause of synovial sarcoma. Translocation t(X;18)(p11.2;q11.2). The translocation is specifically found in more than 80% of synovial sarcoma. The fusion products SSXT-SSX1 or SSXT-SSX2 are probably responsible for transforming activity. Heterogeneity in the position of the breakpoint can occur (low frequency).

Sequence similarities Belongs to the SS18 family.

Cellular localization Nucleus.

Images



Western blot - Anti-SS18 antibody [EPR23636-98] (ab254405)

All lanes : Anti-SS18 antibody [EPR23636-98] (ab254405) at 1/1000 dilution

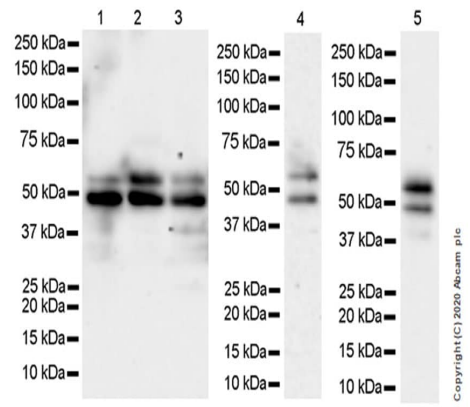
Lane 1 : Wild-type HeLa cell lysate
Lane 2 : SS18 knockout HeLa cell lysate
Lane 3 : HEK-293 cell lysate
Lane 4 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 46 kDa
Observed band size: 51 kDa

False colour image of Western blot: Anti-SS18 antibody [EPR23636-98] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab254405 was shown to bind specifically to SS18. A band was observed at 51/56 kDa in wild-type HeLa cell lysates with no signal observed at this size in SS18 knockout cell line **ab265493** (knockout cell lysate **ab259156**). To generate this image, wild-type and SS18 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-SS18 antibody [EPR23636-98] (ab254405)

All lanes : Anti-SS18 antibody [EPR23636-98] (ab254405) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : HEK-293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 4 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 5 : Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

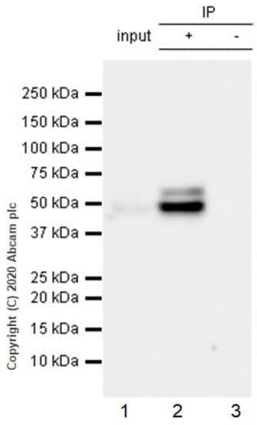
Predicted band size: 46 kDa
Observed band size: 45,55 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID:23540691;29374058)

Lysates were made freshly and used in WB test immediately to minimize protein degradation.

Exposure times: Lanes 1-3: 59 seconds; Lane 4: 3 minutes; Lane 5: 59 seconds.



Immunoprecipitation - Anti-SS18 antibody [EPR23636-98] (ab254405)

SS18 was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab254405 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab254405 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 ug

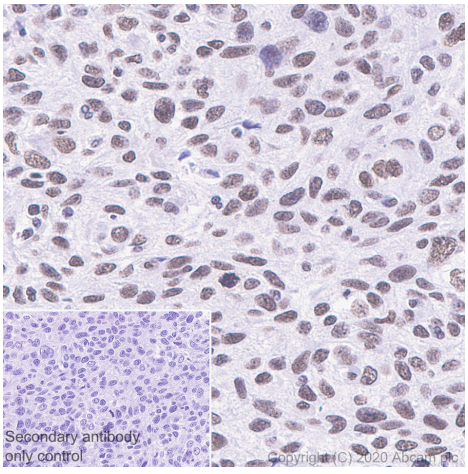
Lane 2: ab254405 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab254405 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 6 seconds.

Lysates were made freshly and used in WB test immediately to minimize protein degradation.

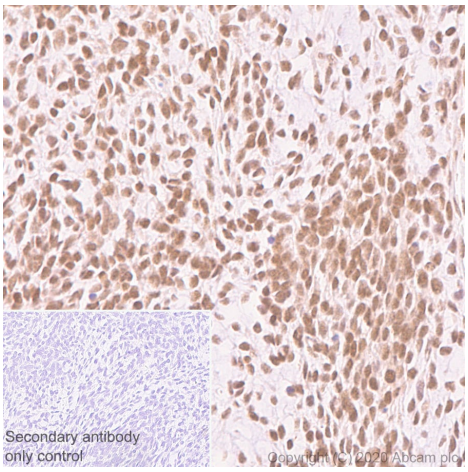


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SS18 antibody [EPR23636-98] (ab254405)

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labeling SS18 with ab254405 at 1/5000 (5.73 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining in human cervical carcinoma. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

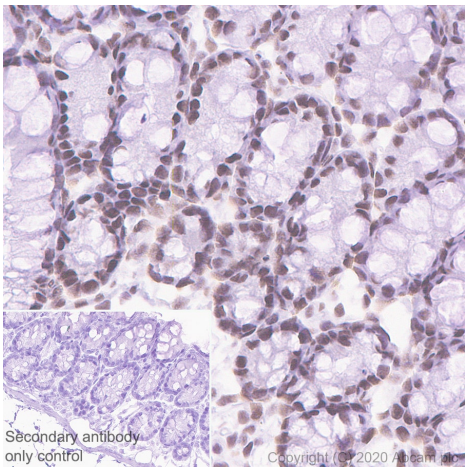


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SS18 antibody [EPR23636-98] (ab254405)

Immunohistochemical analysis of paraffin-embedded Human synovial sarcoma tissue labeling SS18 with ab254405 at 1/5000 (5.73 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining in Human synovial sarcoma (PMID: 27120803). Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

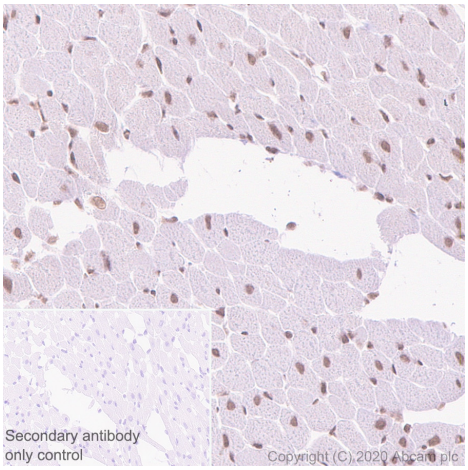


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SS18 antibody [EPR23636-98] (ab254405)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling SS18 with ab254405 at 1/5000 (5.73 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining in mouse colon. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

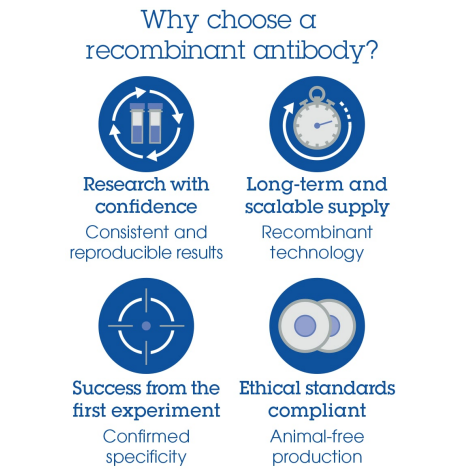


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SS18 antibody [EPR23636-98] (ab254405)

Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling SS18 with ab254405 at 1/5000 (5.73 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining in rat cardiac muscle. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



Anti-SS18 antibody [EPR23636-98] (ab254405)

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