abcam

ab57577

Anti-Sall4 antibody [6E3]

Anti-Sall4 antibody [6E3] (ab57577) is a mouse monoclonal antibody detecting Sall4 in **Western Blot, Flow Cytometry, IHC-P**. Suitable for **Human**.

- Over 30 publications
- Trusted since 2007

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human SALL4 aa 950 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q9UJQ4
Clone number	6E3
Purification technique	Affinity purification Protein A
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SALL4

Function	Transcription factor with a key role in the maintenance and self-renewal of embryonic and hematopoietic stem cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Sall4 antibody [6E3] (ab57577) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P) in Human samples.

What is the molecular weight of Sall4?
Anti-Sall4 [6E3] (ab57577) specifically detects a band for Sall4 (UniProt: Q9UJQ4) at a molecular weight of 112kDa.

Trusted by the scientific community
Anti-Sall4 [6E3] (ab57577) was first used in a scientific publication in 2007 and has been cited over 30 times in peer-reviewed journals.

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

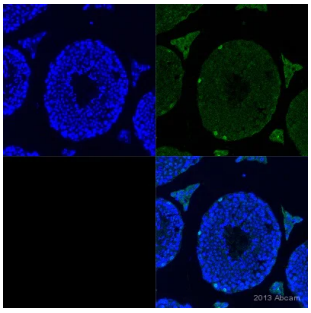
We do not recommend this combination. It is not covered by our product promise.

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.

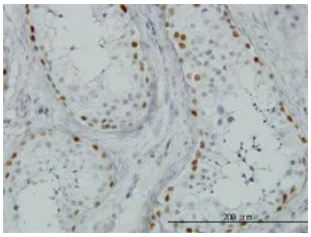
7 product images



This image is courtesy of a customer review from Zachary Yu-Ching Lin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sall4 antibody [6E3] (ab57577)

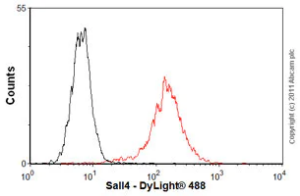
IHC-P image of Sall4 staining with ab57577 on tissue sections from adult mouse testis. The sections were subjected to heat-mediated antigen retrieval using Dako antigen retrieval solution. The sections were then blocked with 5% milk for 30 minutes at 25°C, before incubation with ab57577 (1/100 dilution) for 18 hours at 4°C. The secondary was an Alexa-Fluor 488 conjugated goat anti-mouse polyclonal, used at a 1/500 dilution.
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sall4 antibody [6E3] (ab57577)

Sall4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Sall4 antibody

Sall4 antibody (ab57577) used in immunohistochemistry at 5ug/ml on formalin fixed and paraffin embedded human testis.
This image was generated using the ascites version of the product.



Flow Cytometry - Anti-Sall4 antibody [6E3] (ab57577)

Sall4 Flow Cytometry staining using mouse Anti-Sall4 antibody

Overlay histogram showing HeLa cells stained with ab57577 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab57577, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.
This image was generated using the ascites version of the product.

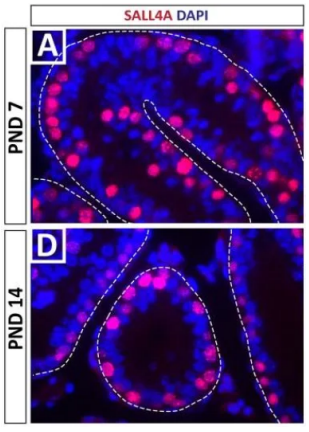


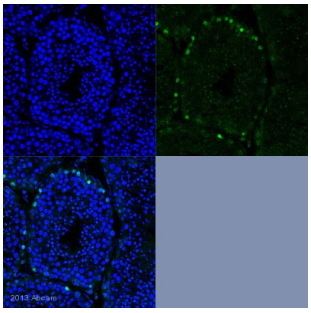
Image from Gassei, Kathrin, et. al. PLoS ONE

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sall4 antibody [6E3] (ab57577)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of testes from juvenile (PND 7 and PND 14) mice labeling Sall4 with ab57577. Testes were dissected and fixed in 4% PFA overnight at 4°C. Fixed tissues were processed for paraffin embedding and 5 µm serial sections were collected. Sections were deparaffinized in xylene (2×15 min), rehydrated in a graded ethanol series (2×100% for 10 min, 1×95% for 5 min, 1×80% for 5 min, 1×70% for 5 min, 1×50% for 5 min, 1×25% for 5 min) and rinsed in 1× DPBS. Slides were then incubated in sodium citrate antigen retrieval buffer (10 mM Sodium Citrate, 0.05% Tween-20, pH 6) for 30 min at 97.5°C and allowed to cool to room temperature. After rinsing twice in 1× DPBS containing 0.1% Tween-20 (DBPS-T), unspecific binding sites in tissue sections were saturated by incubation with blocking buffer (1× DPBS containing 3% bovine serum albumin, 0.1% Triton X-100 and 5% normal serum from the host species of the secondary antibody) for 30 min at room temperature. Primary

8.1 (2013): e53976. doi: 10.1371/journal.pone.0053976. Fig 2A,D. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

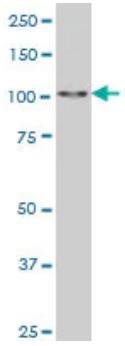
antibodies were diluted in blocking buffer and added to tissue sections for 90 min at room temperature.
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This image is courtesy of a customer review from Zachary Yu-Ching Lin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sall4 antibody [6E3] (ab57577)

IHC-P image of Sall4 staining with ab57577 on tissue sections from adult marmoset testis. The sections were subjected to heat-mediated antigen retrieval using Dako antigen retrieval solution. The sections were then blocked with 5% milk for 30 minutes at 25°C, before incubation with ab57577 (1/100 dilution) for 18 hours at 4°C. The secondary was an Alexa-Fluor 488 conjugated goat anti-mouse polyclonal, used at a 1/500 dilution.
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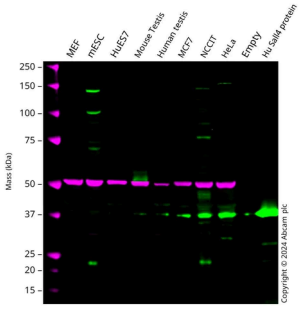
Western blot - Anti-Sall4 antibody [6E3] (ab57577)

Sall4 Western blot staining using mouse Anti-Sall4 antibody

Sall4 antibody (ab57577) at 1ug/lane + HeLa cell lysate at 25ug/lane.
This image was generated using the ascites version of the product.

All lanes:
Western blot - Anti-Sall4 antibody [6E3] (ab57577)

Predicted band size: 112 kDa



Western blot - Anti-Sall4 antibody [6E3] (ab57577)

Western blot: Anti-SALL4 antibody [6E3] (ab57577) staining at 1/1000 dilution, shown in green; Rabbit anti-alpha Tubulin antibody [EP1332Y] (ab52866) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab57577 was shown to bind specifically to SALL4. 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-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution.
All lanes:
Western blot - Anti-Sall4 antibody [6E3] (ab57577) at 1/1000 dilution

Lane 1:
MEF cell lysate at 20 µg

Lane 2:
mESC cell lysate at 20 µg

Lane 3:
HuES7 cell lysate at 20 µg

Lane 4:
Mouse Testis cell lysate at 20 µg

Lane 5:
Human testis cell lysate at 20 µg

Lane 6:
MCF7 cell lysate at 20 µg

Lane 7:
NCCIT cell lysate at 20 µg

Lane 8:
HeLa cell lysate at 20 µg

Lane 9:
Empty cell lysate

Lane 10:
Recombinant Human Sall4 protein (ab153444) cell lysate at 0.5 µg

Secondary

All lanes:
Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.

Observed band size: 140 kDa

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