abcam

ab279687

Alexa Fluor® 647 Anti-SOX2 antibody [SP76]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 647
Excitation/Emission	Ex: 650nm, Em: 665nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP76
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human

Dilution info	1/50
Notes	-

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Target data

See full target information SOX2

Function	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Binds to the proximal enhancer region of NANOG (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:18035408). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). May function as a switch in neuronal development (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
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, Store in the dark

Notes

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.

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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

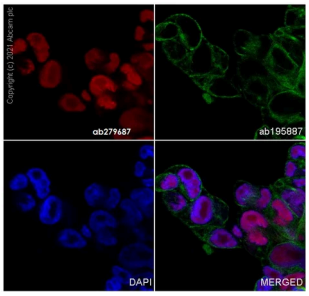
We do not recommend this combination. It is not covered by our product promise.

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

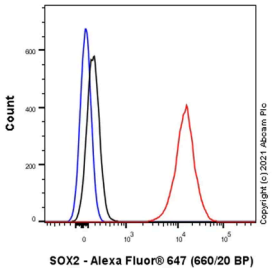


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-SOX2 antibody [SP76] (ab279687)

SOX2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SOX2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NCCIT cells labelling SOX2 with ab279687 at 1/50 (10.0 µg/ml).
Confocal image showing nuclear staining in NCCIT cells.

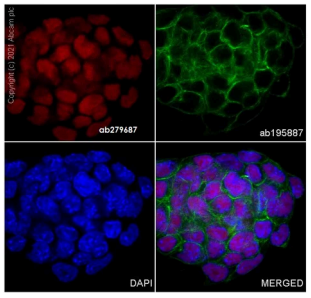
ab195887 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 488) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).



Flow Cytometry (Intracellular) - Alexa Fluor® 647 Anti-SOX2 antibody [SP76] (ab279687)

SOX2 Flow Cytometry (Intracellular) staining using rabbit Anti-SOX2 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NCCIT (human pluripotent embryonic carcinoma epithelial cell) cells labelling SOX2 with ab279687 at 1/500 dilution (0.1µg)/ red compared with a Rabbit monoclonal isotype control - Alexa Fluor® 647 (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

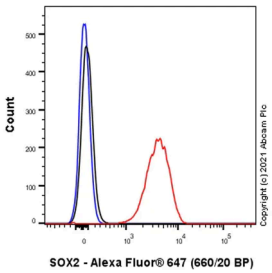


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-SOX2 antibody [SP76] (ab279687)

SOX2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SOX2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized F9 cells labelling SOX2 with ab279687 at 1/50 (10.0 µg/ml).
Confocal image showing nuclear staining in F9 cells.

ab195887 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 488) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).



Flow Cytometry (Intracellular) - Alexa Fluor® 647 Anti-SOX2 antibody [SP76] (ab279687)

SOX2 Flow Cytometry (Intracellular) staining using rabbit Anti-SOX2 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized F9 (Mouse embryonal carcinoma epithelial cell) cells labelling SOX2 with ab279687 at 1/500 dilution (0.1µg)/ red compared with a Rabbit monoclonal isotype control - Alexa Fluor® 647 (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

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