abcam

Product datasheet

Anti-STELLAR antibody ab19878

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Overview

Product name	Anti-STELLAR antibody
Description	Rabbit polyclonal to STELLAR
Host species	Rabbit
Tested applications	**Suitable for:** IHC-Fr, ICC/IF **Unsuitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat
Immunogen	Synthetic peptide corresponding to Mouse STELLAR aa 100 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab23324**)
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab19878 in the following tested applications.

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

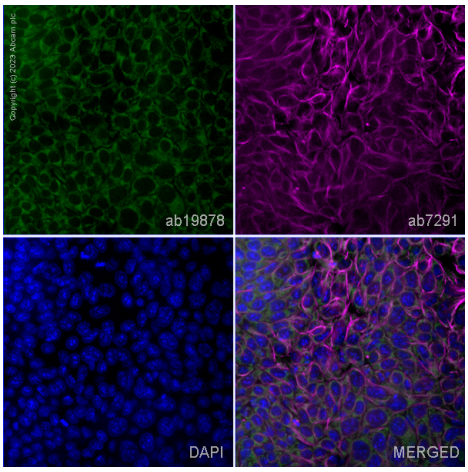
Application	Abreviews	Notes
IHC-Fr	★★★★★ (2)	Use a concentration of 4 µg/ml.
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.

Application notes Is unsuitable for WB.

Target

Function	May play a role in maintaining cell pluripotentiality.
Tissue specificity	Low expression in testis, ovary and thymus. Expressed in embryonic stem and carcinoma cells. Highly expressed in testicular germ cell tumors.
Developmental stage	Expressed in fetal ovary.
Cellular localization	Nucleus. Cytoplasm.
Form	Stella is a gene specifically expressed in primordial germ cells, oocytes, preimplantation embryos and pluripotent cells. It encodes a protein with a SAP-like domain and a splicing factor motif-like structure, suggesting possible roles in chromosomal organization or RNA processing. Embryos without Stella are compromised in preimplantation development and rarely reach the blastocyst stage.

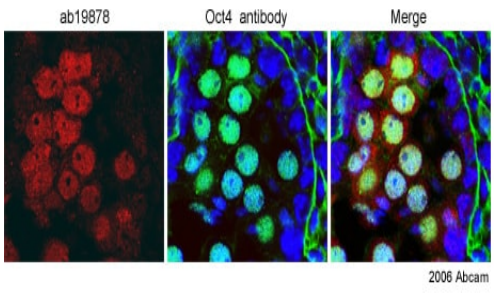
Images



Immunocytochemistry/ Immunofluorescence - Anti-STELLAR antibody (ab19878)

ab19878 staining STELLAR in mES cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab19878 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue).

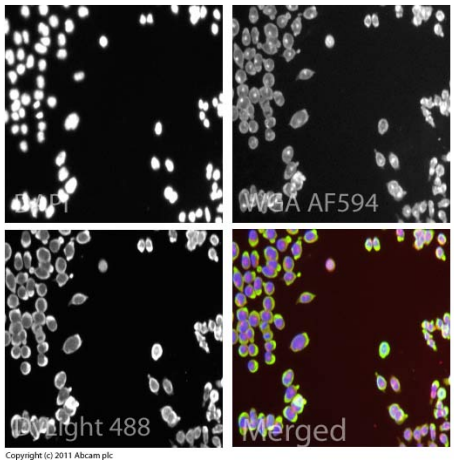
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Frozen sections) - Anti-STELLAR antibody (ab19878)

This image is courtesy of Petra Hajkova, University of Cambridge

The image shows ab19878 staining of a crysosection of mouse embryonic genital ridges (E14.5). The samples were fixed overnight in 4% paraformaldehyde, permeabilised with 0.1% Triton and stained overnight at 4 degrees. 4µg/ml of antibody was used. Staining was in the nucleus and cytoplasm of Oct4-positive cells. The blue fluorescence is DAPI staining of DNA.



Immunocytochemistry/ Immunofluorescence - Anti-STELLAR antibody (ab19878)

ICC/IF image of ab19878 stained mouse embryonic stem cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab19878, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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