abcam

Product datasheet

Anti-FOXP1 antibody [SP133] - C-terminal ab227649

Recombinant RabMAb

2 References 11 Images

Overview

Product name	Anti-FOXP1 antibody [SP133] - C-terminal
Description	Rabbit monoclonal [SP133] to FOXP1 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IHC-Fr, WB, IHC-P, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human tonsil, Mouse colon, and Rat colon tissue; WB: MCF7 cell lysate; Flow Cyt (Intra): MOLT-4 and HepG2 cells, Human PBMCs .
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**. **This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.**

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	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP133

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab227649 in the following tested applications.

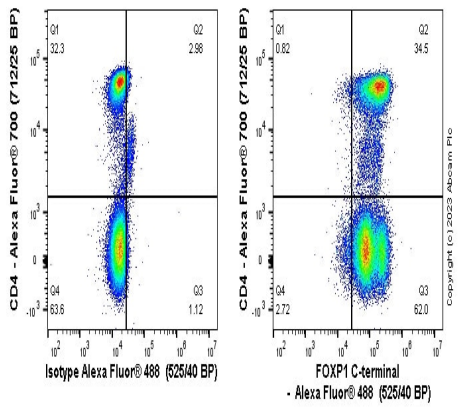
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		1/25.
WB		1/25. Predicted molecular weight: 75 kDa. Primary antibody incubation for 1 hour at room temperature.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary antibody incubation for 10 minutes at room temperature.
Flow Cyt (Intra)		1/100. Primary antibody incubation for 30 minutes at 4°C.

Target

Function	Transcriptional repressor. It plays an important role in the specification and differentiation of lung epithelium. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Essential transcriptional regulator of B cell development.
Involvement in disease	Note=A chromosomal aberration involving FOXP1 is found in acute lymphoblastic leukemia. Translocation t(9;3)(p13;p14.1) with PAX5. Defects in FOXP1 are the cause of mental retardation with language impairment and autistic features (MRLIAF) [MIM:613670]. It is a developmental disorder characterized by mild to moderate mental retardation, language impairment, and autistic features. Patients show global delay, delayed walking, severely delayed speech development, and behavioral abnormalities, including irritability, hyperactivity, aggression, and stereotypical rigid behaviors.
Sequence similarities	Contains 1 C2H2-type zinc finger. Contains 1 fork-head DNA-binding domain.
Domain	The leucine-zipper is required for dimerization and transcriptional repression.
Cellular localization	Nucleus.

Images

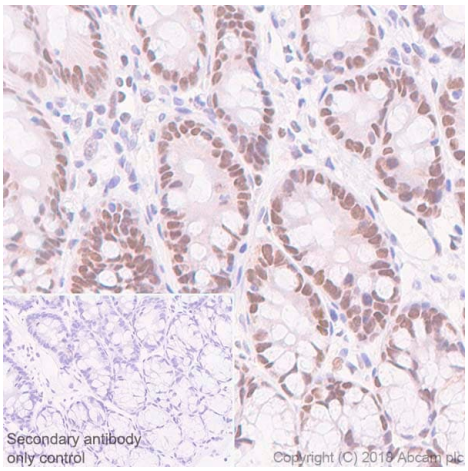


Flow Cytometry (Intracellular) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Flow cytometry staining of human peripheral blood mononuclear cells (PBMCs) with ab227649 (right) or Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (left). Cells were fixed and permeabilised with BD Cytofix/Cytoperm™ for 20 min. PBMCs were incubated for 30 min at 4°C in 1x PBS containing 10 µg/ml human IgG and 10 % normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody ab227649 or Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (1x 10^6 in 100 µl at 0.2 µg/ml (1/10050)) for 30 min at 4°C . The cells were simultaneously stained with CD4.

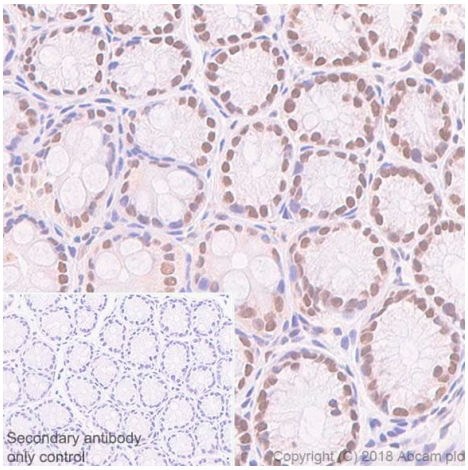
The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 4°C

Acquisition of >30000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter. Events were gated on viable cells.



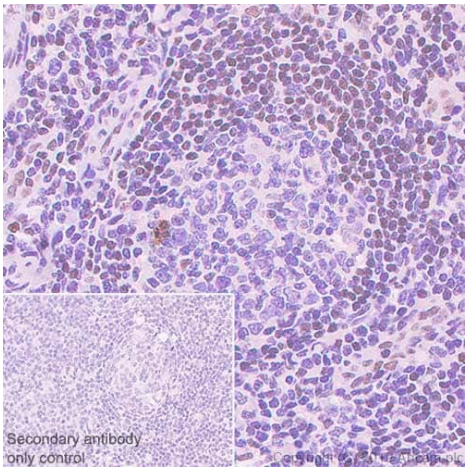
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat colon tissue sections labeling FOXP1 with ab227649 at 1/400 dilution (0.60 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



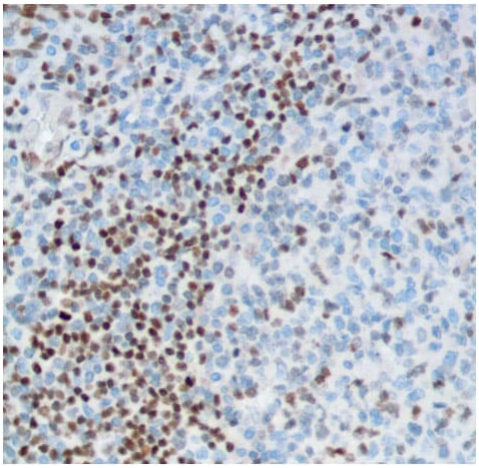
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse colon tissue sections labeling FOXP1 with ab227649 at 1/400 dilution (0.60 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



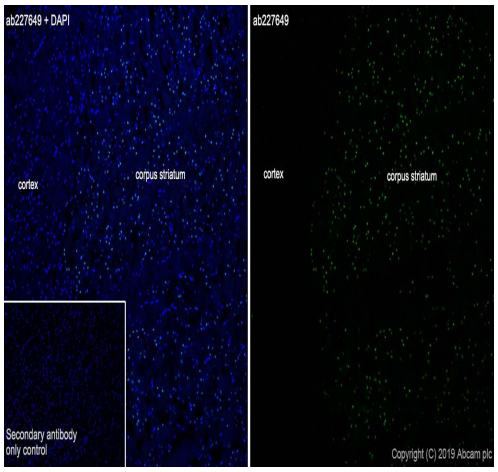
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling FOXP1 with ab227649 at 1/100 dilution (2.40 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



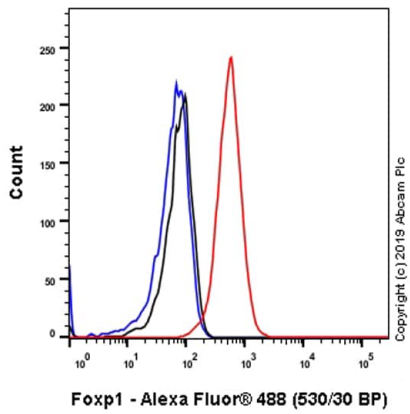
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for FOXP1 using ab227649 at 1/100 dilution in immunohistochemical analysis.



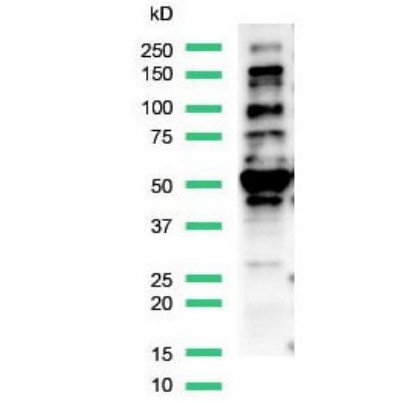
Immunohistochemistry (Frozen sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Immunohistochemistry (Frozen) analysis of rat cerebrum tissue section labeling FOXP1 with purified ab227649 at 1/25 (9.6 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor ®488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

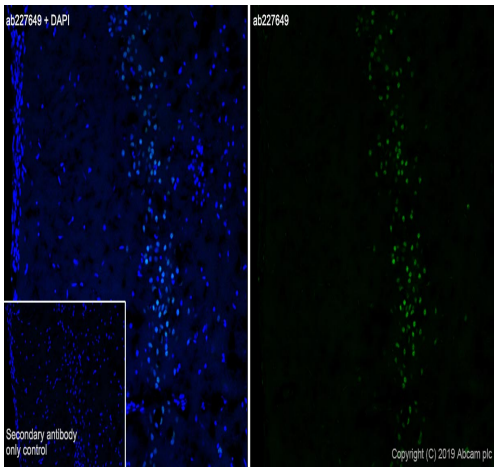
Flow cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) labeling FOXP1 with purified ab227649 at 1/20 dilution (12 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as a secondary antibody. Isotype control -Rabbit monoclonal IgG (**ab172730**) / Black. Unlableled control -Unlabelled cells / blue.



Western blot - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

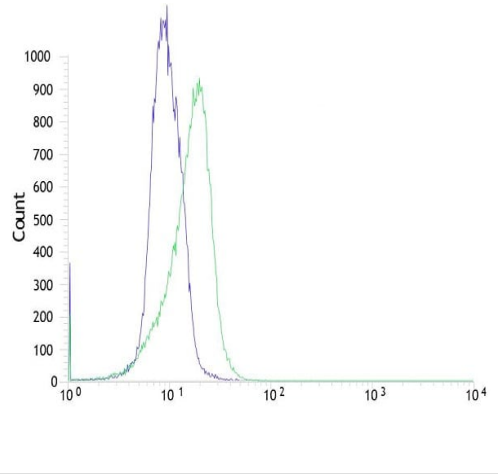
Anti-FOXP1 antibody [SP133] - C-terminal (ab227649) at 1/25 dilution + MCF7 (human breast adenocarcinoma cell line) cell lysate

Predicted band size: 75 kDa



Immunohistochemistry (Frozen sections) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Immunohistochemistry (Frozen) analysis of rat cerebral cortex tissue section labeling FOXP1 with purified ab227649 at 1/25 (9.6 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-FOXP1 antibody [SP133] - C-terminal (ab227649)

Flow cytometric analysis of MOLT-4 (human lymphoblastic leukemia cell line) cell line labeling FOXP1 with ab227649 at 1/100 dilution (green) compared with a negative control of rabbit IgG (blue).

Anti-FOXP1 antibody [SP133] - C-terminal

(ab227649)

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