abcam

Product datasheet

Anti-FOXP1 antibody [JC12] ab32010

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Overview

Product name	Anti-FOXP1 antibody [JC12]
Description	Mouse monoclonal [JC12] to FOXP1
Host species	Mouse
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Zebra finch
Immunogen	Full length native protein (purified) corresponding to Mouse FOXP1.
Positive control	WB: BCBL1 human cell line or Mutul human cell line. IHC-P: Human Hodgkin's lymphoma and human colon tissues.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 Constituents: 6.97% L-Arginine, PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	JC12

Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32010 in the following tested applications.

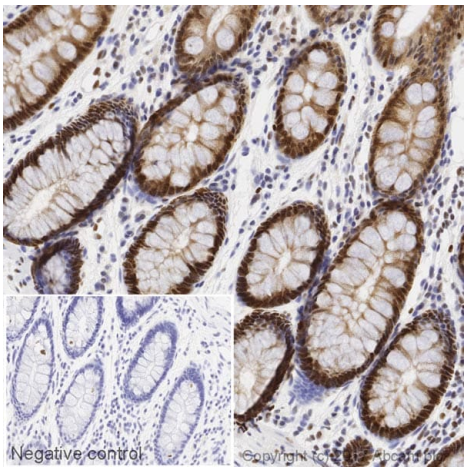
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★☆☆☆ (1)	Use a concentration of 0.1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★☆ (3)	1/500. Predicted molecular weight: 75 kDa.

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



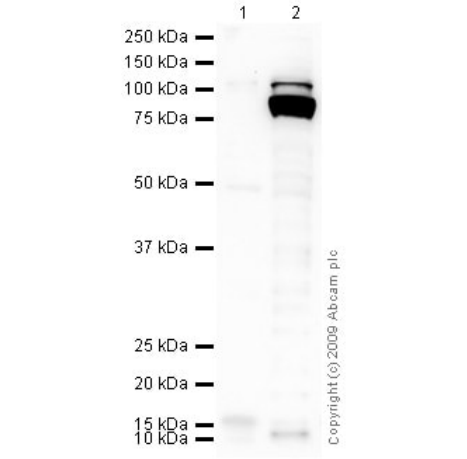
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [JC12] (ab32010)

IHC image of FOXP1 staining in a section of formalin-fixed paraffin-embedded normal human colon*. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab32010, 0.1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-FOXP1 antibody [JC12] (ab32010)

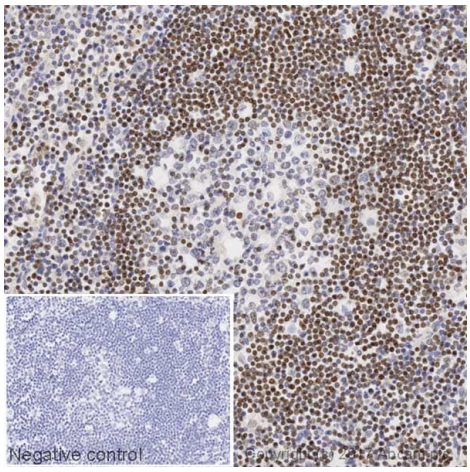
All lanes : Anti-FOXP1 antibody [JC12] (ab32010) at 10 µg/ml

Lane 1 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate
Lane 2 : HEK293 Whole Cell Lysate Overexpressing FOXP1

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) (**ab65485**) at 1/3000 dilution

Predicted band size: 75 kDa
Observed band size: 100,80 kDa



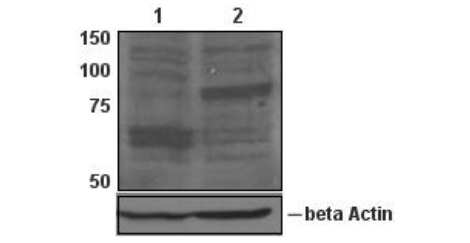
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody [JC12] (ab32010)

IHC image of FOXP1 staining in a section of formalin-fixed paraffin-embedded normal human Hodgkin's lymphoma (CD30+)*, showing positive staining in the mantle zone and negative staining in the Hodgkin's cells and germinal centre. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab32010, 0.1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-FOXP1 antibody [JC12] (ab32010)

All lanes : Anti-FOXP1 antibody [JC12] (ab32010) at 1/500 dilution

Lane 1 : BCBL1 human cell line
Lane 2 : Mutul human cell line

Predicted band size: 75 kDa
Observed band size: 60,65,80 kDa

This antibody recognizes a long form and two short forms of human FOXP1 as described in Blood. 2008. Mar 1; 111(5): 2816-24.

Image kindly provided by H. Hu.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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