


## Product datasheet

### Anti-FOXP1 antibody ab16645

★★★★★ [22 Abreviews](#) [97 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-FOXP1 antibody
<b>Description</b>	Rabbit polyclonal to FOXP1
<b>Host species</b>	Rabbit
<b>Specificity</b>	Replenishment batches of our polyclonal antibody, ab16645 are tested in IHC-P. Previous batches were additionally validated in IHC-FoFr and WB. These applications are still expected to work and are covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, <a href="#">ab134055</a> .
<b>Tested applications</b>	<b>Suitable for:</b> IHC-FoFr, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat, Chicken, Dog, Human, Xenopus laevis 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-p: Mouse brain
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	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.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab16645 in the following tested applications.

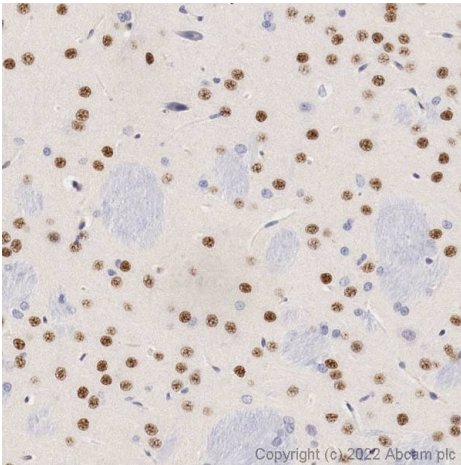
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent concentration.
IHC-P	★★★★★ (4)	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	★★★★★ (7)	1/5000. Detects a band of approximately 75 kDa (predicted molecular weight: 75 kDa). ab16645 recognises the different isoforms of FOXP1 in Jurkat cell lysate (see review for further details).

## Target

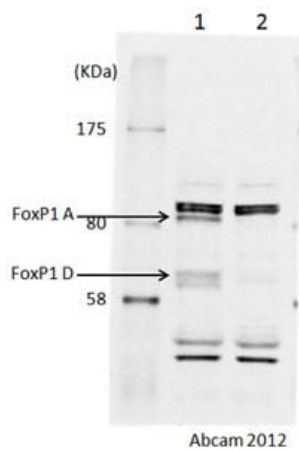
<b>Function</b>	Transcriptional repressor. It plays an important role in the specification and differentiation of lung epithelium. Can act with CTBP1 to synergistically repress transcription but CTBP1 is not essential. Essential transcriptional regulator of B cell development.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 1 C2H2-type zinc finger. Contains 1 fork-head DNA-binding domain.
<b>Domain</b>	The leucine-zipper is required for dimerization and transcriptional repression.
<b>Cellular localization</b>	Nucleus.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP1 antibody (ab16645)

Paraffin-embedded mouse brain tissue stained for FOXP1 using ab16645 in immunohistochemical analysis.



Western blot - Anti-FOXP1 antibody (ab16645)

**All lanes :** Anti-FOXP1 antibody (ab16645) at 1/5000 dilution

**Lane 1 :** Lysate from e12.5 whole mouse embryo FoxP1 +/-

**Lane 2 :** Lysate from e12.5 whole mouse embryo FoxP1 -/-

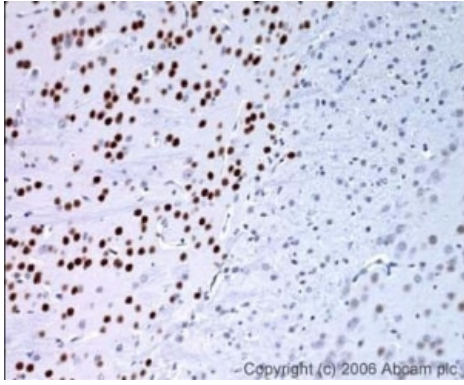
Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 75 kDa

**Observed band size:** 65,82 kDa

**Additional bands at:** 45 kDa (possible cross reactivity), 50 kDa (possible cross reactivity), 85 kDa (possible cross reactivity)



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-FOXP1 antibody (ab16645)

This image is courtesy of Shunyou Wang, Ph.D.

ab16645 was tested in IHC of formalin fixed sections from mouse (over two weeks of age) brain. Antigen retrieval was in citrate buffer and blocking was in 1% BSA. The primary antibody was incubated at a dilution of 1/200 overnight at 4 degrees celsius. The secondary antibody was a biotin conjugated anti-rabbit IgG.

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

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