


Product datasheet

Anti-FOXP3 antibody [mAbcam 22510] ab22510

★★★★☆ [8 Abreviews](#) [112 References](#) [6 Images](#)

Overview

Product name	Anti-FOXP3 antibody [mAbcam 22510]
Description	Mouse monoclonal [mAbcam 22510] to FOXP3
Host species	Mouse
Specificity	This product detects an epitope near the C-terminus of the FOXP3 protein and is expected to detect full length FOXP3. It is not expected to detect the cleaved forms of FOXP3.
Tested applications	Suitable for: IHC-Fr, IHC-P, WB Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human tonsil and spleen tissue. Human colon carcinoma tissue. IHC-Fr: Human tonsil tissue. WB: HEK293 cells overexpressing human FOXP3.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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&As</p>

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	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine

Please note that some batches of ab22510 may contain 0.4M arginine. Please contact Scientific

Support for further information.

Purity	IgG fraction
Clonality	Monoclonal
Clone number	mAbcam 22510
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab22510 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

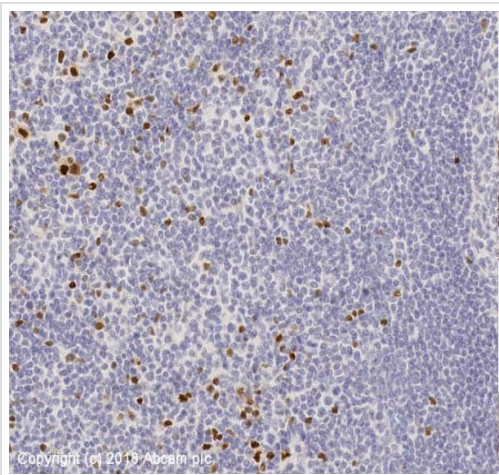
Application	Abreviews	Notes
IHC-Fr		Use a concentration of 10 µg/ml.
IHC-P	★★★★★ (5)	Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).

Application notes Is unsuitable for Flow Cyt.

Target

Function	Probable transcription factor. Plays a critical role in the control of immune response.
Involvement in disease	Defects in FOXP3 are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX) [MIM:304790]; also known as X-linked autoimmunity-immunodeficiency syndrome. IPEX is characterized by neonatal onset insulin-dependent diabetes mellitus, infections, secretory diarrhea, thrombocytopenia, anemia and eczema. It is usually lethal in infancy.
Sequence similarities	Contains 1 C2H2-type zinc finger. Contains 1 fork-head DNA-binding domain.
Cellular localization	Nucleus.

Images

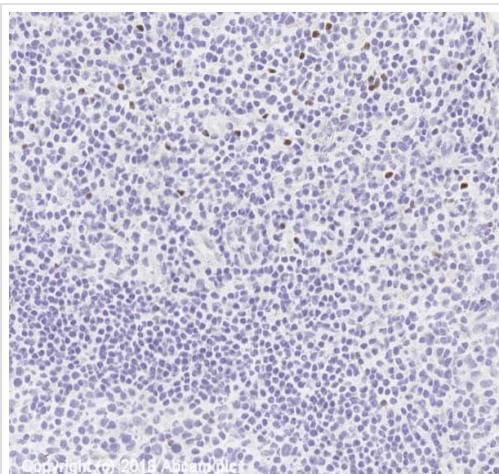


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [mAbcam 22510] (ab22510)

IHC image of FOXP3 staining in a section of formalin-fixed paraffin-embedded normal human tonsil* performed on a Leica BOND™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with EDTA buffer (pH9, epitope retrieval solution 2) for 20mins. The section was then incubated with ab22510, 10ug/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.

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*

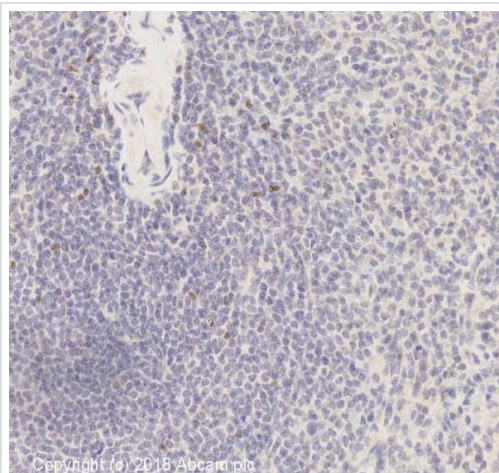


Immunohistochemistry (Frozen sections) - Anti-FOXP3 antibody [mAbcam 22510] (ab22510)

IHC image of FOXP3 staining in a section of formalin-fixed frozen normal human tonsil* performed on a Leica BOND™ system using the standard protocol F. The section was then incubated with ab22510, 10ug/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.

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*

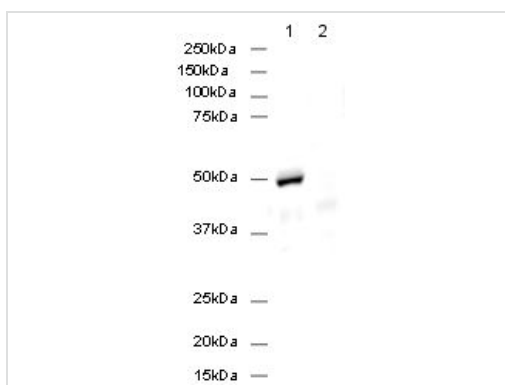


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [mAbcam 22510] (ab22510)

IHC image of FOXP3 staining in a section of formalin-fixed paraffin-embedded normal human spleen* performed on a Leica BOND™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with EDTA buffer (pH9, epitope retrieval solution 2) for 20mins. The section was then incubated with ab22510, 10ug/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.

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.

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Western blot - Anti-FOXP3 antibody [mAbcam 22510] (ab22510)

All lanes : Anti-FOXP3 antibody [mAbcam 22510] (ab22510) at 1 µg/ml

Lane 1 : HEK293 cells overexpressing human FOXP3

Lane 2 : HEK293 cells overexpressing human FOXP3 with Human FOXP3 peptide ([ab16809](#)) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary

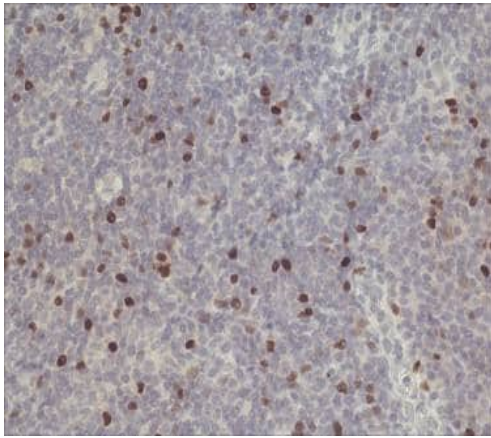
All lanes : Rabbit Anti-Mouse IgG H&L (HRP) ([ab6728](#)) at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 48 kDa

Observed band size: 50 kDa

Exposure time: 45 seconds



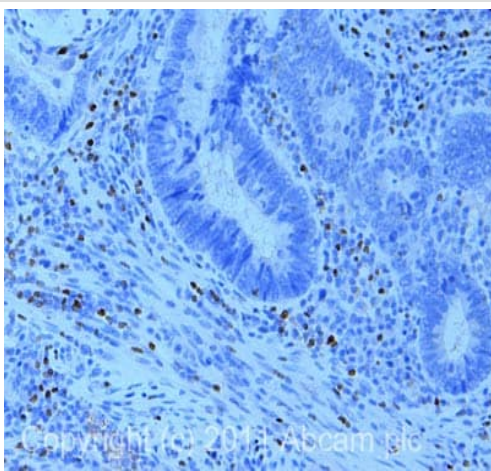
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody

[mAbcam 22510] (ab22510)

This image is courtesy of Alison Banham and Bridget Fox, University of Oxford

Clone mAbcam 22510 used to stain formalin-fixed paraffin-embedded sections of human tonsil. Antigens were heat retrieved with pH9 Tris-EDTA buffer.

These images were produced with neat supernatant produced with this clone (the stock of this antibody is purified from supernatant).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody

[mAbcam 22510] (ab22510)

IHC image of ab22510 staining in human colon carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. 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 ab22510, 20µg/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.

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.

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