

Product datasheet

Anti-FOXP3 antibody [mAbcam 450] ab450

★★★★★ 2 Abreviews 14 References 5 Images

Overview

| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name | Anti-FOXP3 antibody [mAbcam 450] |
| Description | Mouse monoclonal [mAbcam 450] to FOXP3 |
| Host species | Mouse |
| Specificity | Detects a single clean band on human FOXP3 transfected 293 cells. When used in immunocytochemistry on acetone fixed FOXP protein transfected COS cells the antibody only detects FOXP3 and not FOXP1, FOXP2 or FOXP4. |
| Tested applications | Suitable for: IHC-Fr, IP, IHC-P, ICC/IF, WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide corresponding to Human FOXP3 aa 400 to the C-terminus conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: Q9BZS1 (Peptide available as ab16809) |
| Positive control | IHC-P: FFPE Human tonsil tissue sections. IHC-Fr: Human tonsil tissue sections. |
| General notes | This antibody clone is manufactured by Abcam. If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here . |

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: PBS, 6.97% L-Arginine |
| Purity | IgG fraction |
| Clonality | Monoclonal |
| Clone number | mAbcam 450 |
| Myeloma | Sp2/0-Ag14 |
| Isotype | IgG3 |

Light chain type

kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab450** 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 5 µg/ml. |
| IP | ★★★★☆ | Use at an assay dependent concentration. Used at 2 µg/ml on human FOXP3 transfected COS cells (see Abreview for further information). |
| IHC-P | ★★★★★ | 1/50. This clone has been tested against FOXP3 transfectants of COS-1 cells fixed with acetone and also works against formalin-fixed paraffin-embedded FOXP3 transfectants heat retrieved with pH9 Tris-EDTA buffer. It did not show positive staining with cryostat or paraffin-embedded human tonsil. |
| ICC/IF | | Use at an assay dependent concentration. |
| WB | | Use a concentration of 1 µg/ml. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa). Can be blocked with Human FOXP3 peptide (ab16809) . |

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.

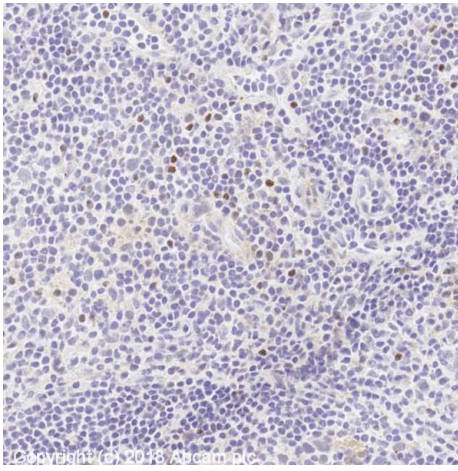
Sequence similarities

Contains 1 C2H2-type zinc finger.
Contains 1 fork-head DNA-binding domain.

Cellular localization

Nucleus.

Images

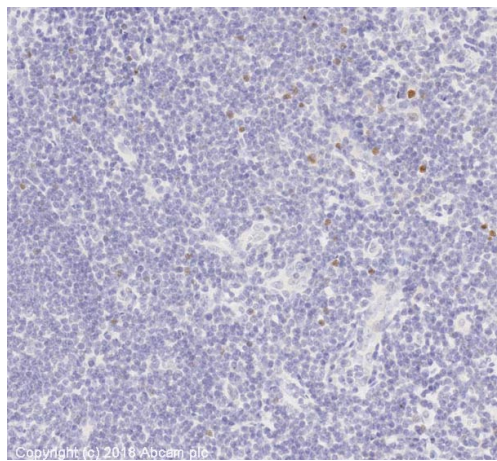


Immunohistochemistry (Frozen sections) - Anti-FOXP3 antibody [mAbcam 450] (ab450)

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 ab450, 5ug/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*

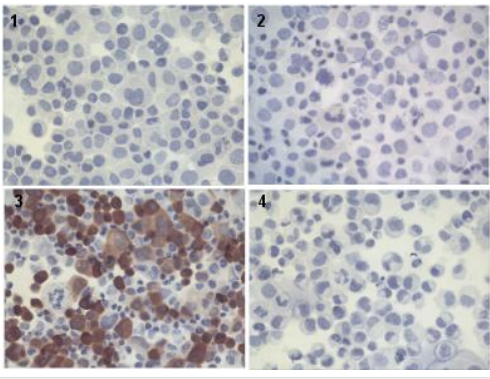


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [mAbcam 450] (ab450)

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 sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab450, 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.

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*



Immunocytochemistry - Anti-FOXP3 antibody

[mAbcam 450] (ab450)

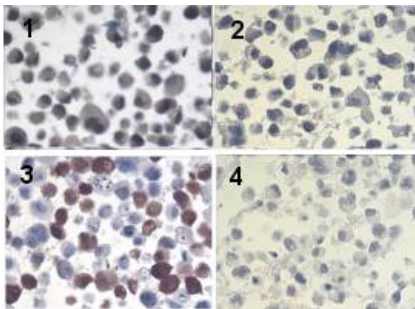
This image is courtesy of Alison Banham and Bridget Fox, University of Oxford

Clone mAbcam 450 used in immunocytochemistry on transfected COS-1 cytopins fixed with acetone for 10 mins.

- 1: FOXP1 transfectant
- 2: FOXP2 transfectant
- 3: FOXP3 transfectant
- 4: FOXP4 transfectant

Staining can be seen on the FOXP3 transfectant, but no staining is seen with the other FOXP protein transfectants, confirming the specificity of this antibody in immunocytochemistry.

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



Immunocytochemistry - Anti-FOXP3 antibody

[mAbcam 450] (ab450)

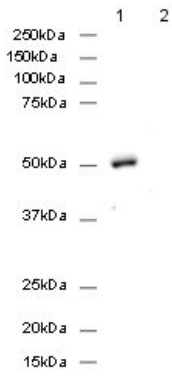
This image is courtesy of Alison Banham and Bridget Fox, University of Oxford

Clone mAbcam 450 used in immunocytochemistry on paraffin embedded transfected COS-1 cytopins.

- 1: FOXP1 transfectant
- 2: FOXP2 transfectant
- 3: FOXP3 transfectant
- 4: FOXP4 transfectant

Strong staining can be seen on the FOXP3 transfectant, with very weak staining on the FOXP1 transfectant and no staining is seen with the other FOXP protein transfectants. This shows that the antibody is largely specific for FOXP3 when used with paraffin embedded cells.

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



Western blot - Anti-FOXP3 antibody [mAbcam 450]
(ab450)

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