abcam

Product datasheet

Anti-FOXP3 antibody [mAbcam 450] ab450

★★★★★ 2 Abreviews 23 References 3 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, IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human FOXP3 aa 400 to the C-terminus conjugated to keyhole limpet haemocyanin. 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 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: PBS, 6.97% L-Arginine

Purity	Protein A purified
Clonality	Monoclonal
Clone number	mAbcam 450
Myeloma	Sp2/0-Ag14
Isotype	IgG3
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab450 in the following tested applications.

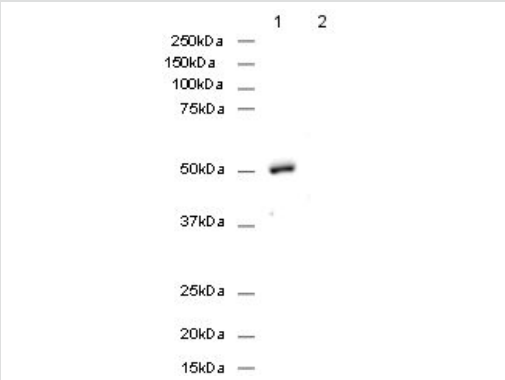
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use a concentration of 5 µg/ml.
IHC-P	★★★★★ (1)	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.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).

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, trombocytopenia, 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



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

All lanes : Anti-FOXP3 antibody [mAbcam 450] (ab450) 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

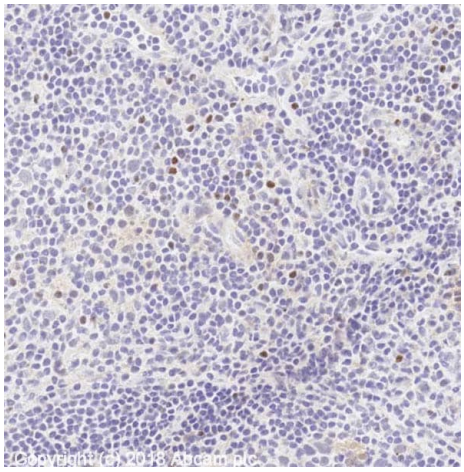
Lysates/proteins at 20 µg per lane.

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

Performed under reducing conditions.

Predicted band size: 48 kDa

Exposure time: 45 seconds

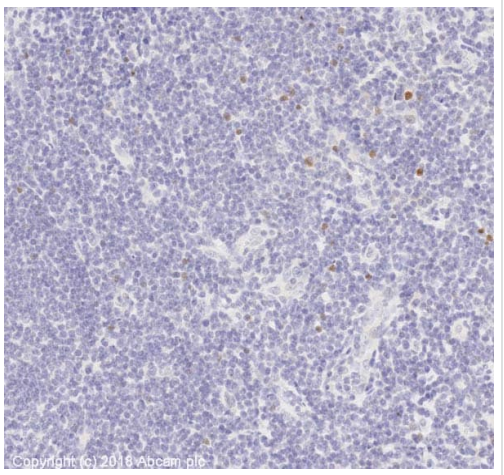


Immunohistochemistry (Frozen sections) - Anti-FOXP3 antibody [mAbcam 450] (ab450)

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*

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