

Product datasheet

Anti-FOXP3 antibody [EPR15038-69] ab191416

Recombinant **RabMAb**

[4 References](#) [7 Images](#)

Overview

Product name	Anti-FOXP3 antibody [EPR15038-69]
Description	Rabbit monoclonal [EPR15038-69] to FOXP3
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: FFPE Human normal tissue sections. Human Hodgkin lymphoma tissue. IHC-Fr: Human tonsil tissue sections.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15038-69
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab191416 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		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use a concentration of 5 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 47 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, thrombocytopenia, anemia and eczema. It is usually lethal in infancy.

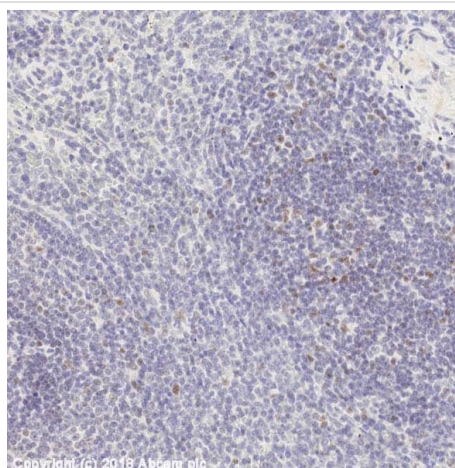
Sequence similarities

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

Cellular localization

Nucleus.

Images

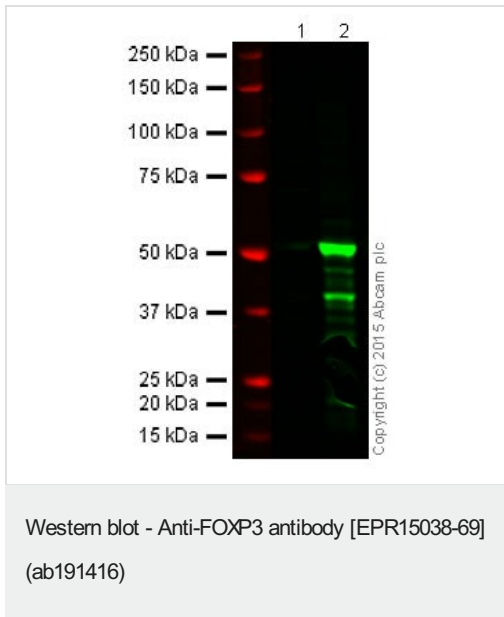


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [EPR15038-69] (ab191416)

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 sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab191416, 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. The inset secondary-only 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,*



All lanes : Anti-FOXP3 antibody [EPR15038-69] (ab191416) at 5 µg/ml

Lane 1 : HEK293T cell lysate

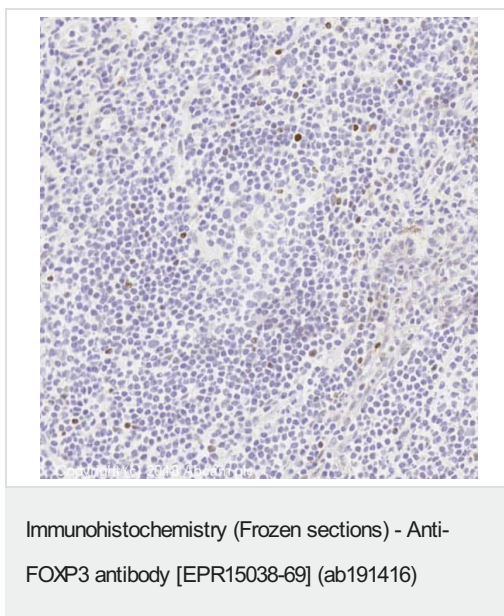
Lane 2 : HEK293T cell lysate overexpressing Human FOXP3

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 47 kDa

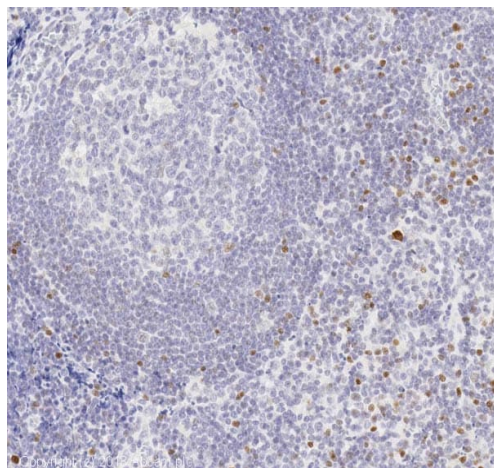
This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with [ab10563](#). Antibody binding was detected using Goat anti Rabbit IR680 at a 1:10,000 dilution for 1hr at room temperature and then imaged using the Licor Odyssey CLx.



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 ab191416, 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. The inset secondary-only 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

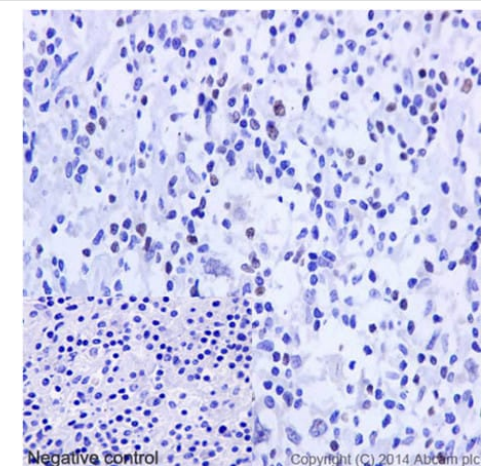


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [EPR15038-69] (ab191416)

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 ab191416, 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. The inset secondary-only 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*



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [EPR15038-69] (ab191416)

Immunohistochemical analysis of paraffin-embedded Human Hodgkin lymphoma tissue labeling FOXP3 with ab191416 at 1/250 dilution (0.9 µg/ml) followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin. Inset: Negative control: using PBS instead of primary antibody.


Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Tissue Microarray (TMA) data for ab191416					
Normal tissue samples			Malignant tissue samples		
Human cardiac muscle	x	Human placenta	x	Clear cell carcinoma of human kidney	x
Human cerebrum	x	Human skeletal muscle	x	Human bladder cancer	x
Human colon	x	Human skin	x	Human breast carcinoma	x (immune cells ✓)
Human endometrium	x	Human spleen	✓	Human cervical carcinoma	x
Human kidney	x	Human stomach	x	Human colon carcinoma	x
Human liver	x	Human testis	x	Human endometrial carcinoma	x
Human lung	x	Human thyroid	x	Human gastric adenocarcinoma	x
Human mammary gland	x	Human tonsil	✓	Human glioma	x
Human pancreas	x			Human hepatocellular carcinoma	x (immune cells ✓)
				Human Hodgkin's lymphoma	✓
				Human lung carcinoma	x (immune cells ✓)
				Human ovarian carcinoma	x
				Human pancreatic carcinoma	x (immune cells ✓)
				Human prostatic hyperplasia	x
				Human thyroid carcinoma	x

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP3 antibody [EPR15038-69] (ab191416)


Tissue Microarrays stained for "Anti-FOXP3 antibody [EPR15038-69]" using "ab191416" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab191416 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Why choose a recombinant antibody?




Research with confidence

Consistent and reproducible results




Long-term and scalable supply

Recombinant technology



Success from the first experiment

Confirmed specificity



Ethical standards compliant

Animal-free production

Anti-FOXP3 antibody [EPR15038-69] (ab191416)

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

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