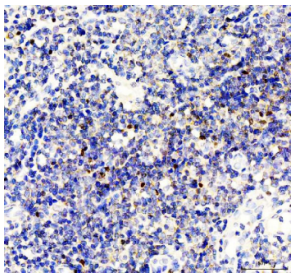
FOXP3 Antibody (R30134)

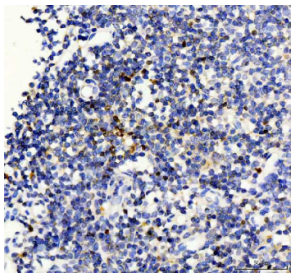
Catalog No.	Formulation	Size
R30134	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9BZS1
Localization	Nuclear
Applications	Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This FOXP3 antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with FOXP3 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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Description

FOXP3 is a member of the forkhead box family of transcription factors and is considered a master regulator of regulatory T cell development and function. It is highly expressed in CD4 positive CD25 positive regulatory T cells, where it plays a critical role in maintaining immune tolerance and preventing autoimmune responses. The importance of FOXP3 is underscored by its association with immune dysregulation syndromes when mutated or dysregulated.

The FOXP3 gene undergoes alternative splicing, resulting in multiple isoforms that may differ in their regulatory functions and cellular localization. The full-length isoform is the most widely studied, but shorter isoforms lacking specific domains have also been identified and may modulate transcriptional activity or interact with co-regulators differently.

A FOXP3 antibody is an essential tool for immunologists studying regulatory T cells and immune regulation. Researchers rely on a FOXP3 antibody for applications such as immunohistochemistry, flow cytometry, western blot, and immunofluorescence to assess expression levels, localization, and functional states of T cells. NSJ Bioreagents provides a high-quality FOXP3 antibody that ensures reliable detection across various sample types and assay conditions. With rigorous validation and performance data, the FOXP3 antibody from NSJ Bioreagents supports accurate and reproducible results for both basic research and clinical investigations.

Application Notes

The stated application concentrations are suggested starting points. Titration of the FOXP3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 101-431) was used as the immunogen for this FOXP3 antibody.

Storage

After reconstitution, the FOXP3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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