

# Product Datasheet

## FoxP3 Antibody NB600-242

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB600-242**

## FoxP3 Antibody

| Product Information |  |
|---------------------|--|
| Unit Size           | 0.1 mg   |
| Concentration       | 0.5 mg/ml  |
| Storage             | Store at -20C. Avoid freeze-thaw cycles.               |
| Clonality           | Polyclonal   |
| Preservative        | 0.02% Sodium Azide                                     |
| Isotype             | IgG  |
| Purity              | Immunogen affinity purified                            |
| Buffer              | Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA |

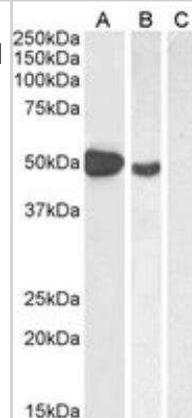
| Product Description     |   |
|-------------------------|---|
| Description             | Novus Biologicals Goat FoxP3 Antibody (NB600-242) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-FoxP3 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                    | Goat  |
| Gene ID                 | 50943   |
| Gene Symbol             | FOXP3   |
| Species                 | Human, Rat  |
| Reactivity Notes        | Rat reactivity reported from a verified customer review.  |
| Specificity/Sensitivity | This antibody is expected to recognize both reported isoforms (NP_054728.2 and NP_001107849.1)  |
| Immunogen               | Peptide with sequence SQRPSRCSNPTPGP corresponding to C-Terminus according to NP_054728.2, NP_001107849.1.  |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Peptide ELISA, Control   |
| Recommended Dilutions       | Western Blot 1 - 3 ug/mL, Flow Cytometry 10 ug/mL, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 6.0 - 8.0 ug/ml, Peptide ELISA 1:8000, Control   |
| Application Notes           | Western blot: Approx 48-50kDa band observed in Human Muscle lysates and in lysates of cell line MOLT4 (calculated MW of 47.2kDa according to NP_054728.2). Recommended concentration: 1-3ug/ml. Primary incubation 1 hour at room temperature. Negative Control: Human Pancreas lysate |

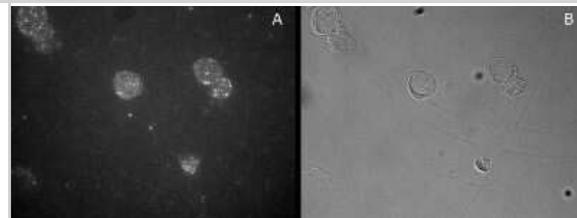


## Images

Western Blot: FoxP3 Antibody [NB600-242] - (1 ug/mL) staining of Human Muscle (A), (2 ug/mL) MOLT4 (B) and (1 ug/mL) negative control Pancreas (C) lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



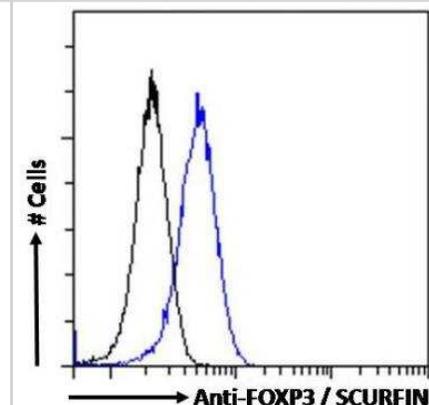
Immunocytochemistry: FoxP3 Antibody [NB600-242] - (Treg) human blood cells gathered by cytopspin and detected by FITC (A) and in phase contrast (B).



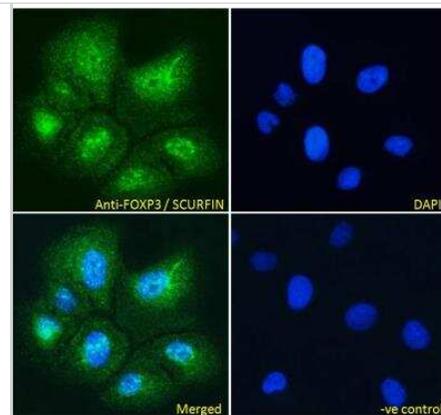
Immunohistochemistry: FoxP3 Antibody [NB600-242] - (8ug/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



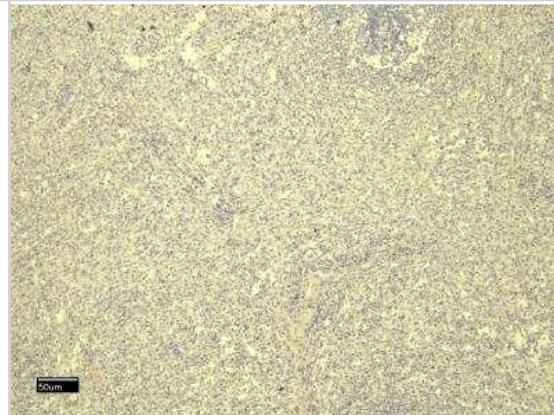
Flow Cytometry: FoxP3 Antibody [NB600-242] - Analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunofluorescence: FoxP3 Antibody [NB600-242] - Paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL), showing strong localization to nucleoplasm. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL).



Control: FoxP3 Antibody [NB600-242] - Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



## Publications

- Gupta, G K, Agrawal, T Et al. Immunohistochemical expression of vitamin D receptor and forkhead box P3 in classic Hodgkin lymphoma: correlation with clinical and pathologic findings. *BMC Cancer* 2020-06-08 [PMID: 32513132] (IF/IHC, Mouse)
- Pilichowska MD, Gupta GK Immunohistochemical Expression of Vitamin D Receptor and Forkhead Box P3 in Classic Hodgkin Lymphoma: Correlation with Clinical and Pathologic Findings *Oncology* 2019-11-20 [PMID: 32513132]
- Chatila TA, Blaeser F, Ho N et al. JM2, encoding a fork head-related protein, is mutated in X-linked autoimmunity-allergic dysregulation syndrome. *J Clin Invest* 2000-12-01 [PMID: 11120765]
- Shen S, Shin JJ, Strle K et al. Treg cell numbers and function in patients with antibiotic-refractory or antibiotic-responsive Lyme arthritis. *Arthritis Rheum* 2010-07-01 [PMID: 20506317] (IF/IHC, ICC/IF, Human)
- Mansour H, Homs S, Desvaux D, Badoual C, Dahan K, Matignon M, Audard V, Lang P, Grimbert P. Intra-graft levels of Foxp3 mRNA predict progression in renal transplants with borderline change. *J Am Soc Nephrol*;19(12):2277-81. 2008-12-01 [PMID: 18667728]
- Radulovic S, Jacobson MR, Durham SR, Nouri-Aria KT. Grass pollen immunotherapy induces Foxp3-expressing CD4+ CD25+ cells in the nasal mucosa. *J Allergy Clin Immunol*;121(6):1467-72, 1472. 2008-06-01 [PMID: 18423565]
- Banham AH, Brown PJ, Lyne L, Schulze HJ, Hallermann C. Is FOXP3 expressed in cutaneous T-cell lymphomas? . *Eur J Haematol*;80(1):90-1. 2008-01-01 [PMID: 18036183]
- Nakamura T, Shima T, Saeki A, Hidaka T, Nakashima A, Takikawa O, Saito S. Expression of indoleamine 2, 3-dioxygenase and the recruitment of Foxp3-expressing regulatory T cells in the development and progression of uterine cervical cancer. *Cancer Sci*;98(6):874-81. 2007-06-01 [PMID: 17433037]
- Ward FJ, Hall AM, Cairns LS, Leggat AS, Urbaniak SJ, Vickers MA, Barker RN. Clonal regulatory T cells specific for a red blood cell autoantigen in human autoimmune hemolytic anemia. *Blood*15;111(2):680-7. 2008-01-01 [PMID: 17761830]
- Turnquist HR, Zhao Z, Rosborough BR et al. IL-33 Expands Suppressive CD11b+ Gr-1int and Regulatory T Cells, including ST2L+ Foxp3+ Cells, and Mediates Regulatory T Cell-Dependent Promotion of Cardiac Allograft Survival. *Journal of Immunology* 2011-09-26 [PMID: 21949025]
- Petrilli G, Lorenzi L, Paracchini R et al. Epstein-Barr Virus-Associated Adrenal Smooth Muscle Tumors and Disseminated Diffuse Large B-Cell Lymphoma in a Child With Common Variable Immunodeficiency: A Case Report and Review of the Literature. *Int J Surg Pathol*. 2011-03-31 [PMID: 21454372] (IF/IHC, Human)
- Stahl HF et al. miR-155 inhibition sensitizes CD4+ Th cells for TREG mediated suppression. *PLoS One*;4(9):e7158. 2009-09-24 [PMID: 19777054]





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### Products Related to NB600-242

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|                 |  |
|-----------------|--|
| NBL1-10817      | FoxP3 Overexpression Lysate  |
| NBP2-33376H     | Blue Marker Antibody (6F4-F6) [HRP]                                    |
| HAF017          | Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| HAF109          | Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| NB410-28088-1mg | Goat IgG Isotype Control   |

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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