

## FOXP3

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| CONTACT INFORMATION:     | Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas |
| STATUS:                  | Validated  |
| TYPE:                    | mouse anti mouse   |
| CLONE NAME:              | 221D   |
| PROTEIN:                 | Human full length FOXP3  |
| ANTIGEN USED:            | GST-FOXP3 recombinant protein  |
| FUSION PARTNER:          | myeloma p3-NS1/Ag4-1 (NS1) cells   |
| ISOTYPE:                 | IgG1   |
| SPECIES REACTIVITY:      | human, mouse, cat, dog, horse, rabbit, alpaca and pig.                     |
| PREPARATION AND STORAGE: | Aliquot and store at 4C. Do not freeze                                     |
| APP RECOMMENDED:         | IHQ-paraffin, IHQ-frozen, WB, Flow cytometry, IF                           |
| APP NO TESTED:           | IP   |

### DESCRIPTION

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FOXP3 is a forkhead-family transcription factor that negatively regulates T cell function. Mice carrying a loss-of-function mutation in FoxP3 present with fatal autoimmune-like disease caused by hyperresponsive CD4(+) T cells. Mice that overexpress scurfin possess fewer mature T cells with reduced functional capabilities compared with normal littermate control mice. FOXP3 is critical for normal CD4+ T cell function and for the successful coordination of a normal response to immunological challenge in vivo.

### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

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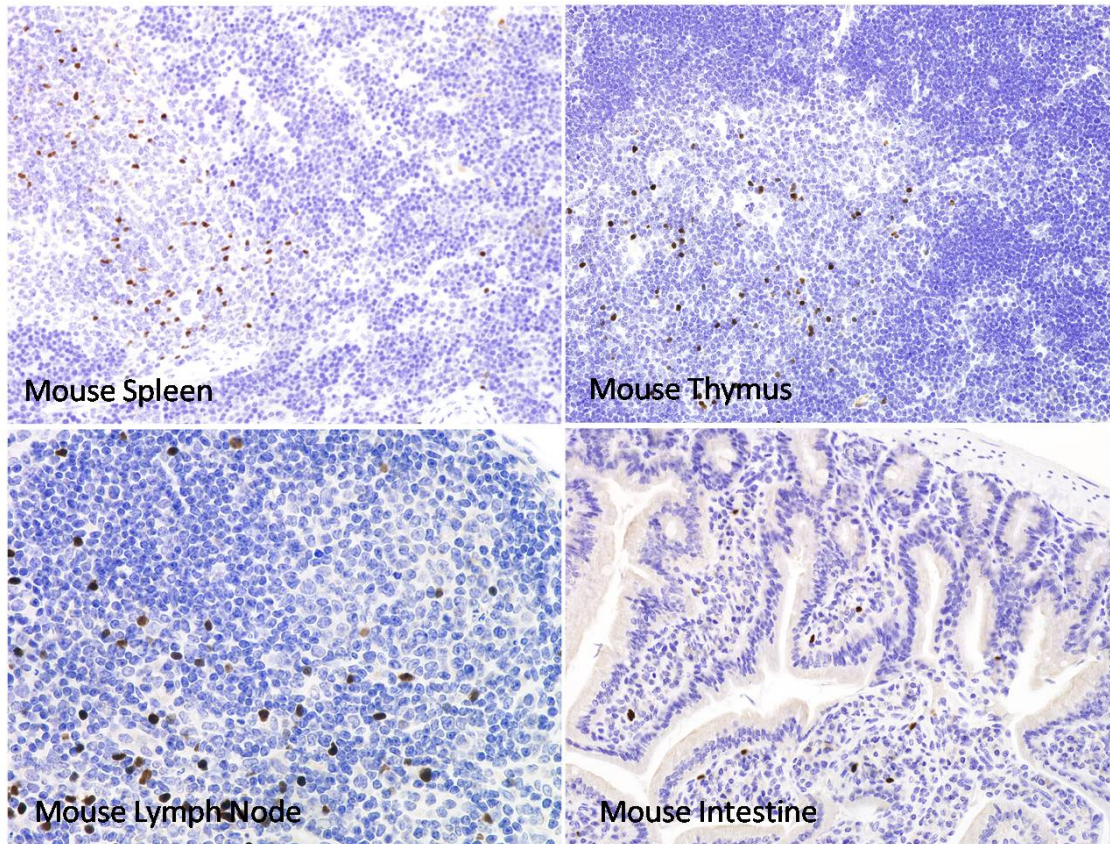
Roncador G, Brown PJ, Maestre L, Hue S, Martínez-Torrecuadrada JL, Ling KL, Pratap S, Toms C, Fox BC, Cerundolo V, Powrie F, Banham AH. Analysis of FOXP3 protein expression in human CD4(+)CD25(+) regulatory T cells at the single-cell level. *Eur J Immunol* 2005 35:1681-1691. <http://www.ncbi.nlm.nih.gov/pubmed/15902688>

Banham AH, Lyne L, Scase TJ, Blacklaws BA. Monoclonal antibodies raised to the human FOXP3 protein can be used effectively for detecting Foxp3(+) T cells in other mammalian species. *Vet Immunol Immunopathol.* 2009 Feb 15;127(3-4):376-81.

<http://www.sciencedirect.com/science/article/pii/S0165242708007083>

## APPLICATIONS

| IHC Techniques                    | Clone | Dilution | Antibody concentration | Antigen retrieval method | Visualization kit | Positive control | Negative control | Protein localization | Positivity in other species |
|-----------------------------------|-------|----------|------------------------|--------------------------|-------------------|------------------|------------------|----------------------|-----------------------------|
| <b>Frozen tissue and cytopins</b> |       |          |                        |                          |                   |                  |                  |                      |                             |
| <b>Paraffin tissue</b>            |       |          |                        |                          |                   |                  |                  |                      |                             |
| Recommended                       | 221D  | neat     | supernatant            | OmniMap Mild CC1         | Ventana           | lymph node       |                  | nuclear              | human                       |
| <b>Immunofluorescence</b>         |       |          |                        |                          |                   |                  |                  |                      |                             |



**Anti-FOXP3 221D in mouse paraffin sections.**