

For Research Use Only

Anti-Mouse Foxp3 (3G3)

Catalog Number: 65089-1-Ig 4 Publications



Basic Information

| | | |
|-------------------------------|---------------------------------------|---|
| Catalog Number: 65089-1-Ig | GenBank Accession Number: BC132333 | Purification Method: Affinity purification |
| Size: 100ug, 500 µg/ml | GeneID (NCBI): 20371 | CloneNo.: 3G3 |
| Source: Mouse | Full Name: forkhead box P3 | Recommended Dilutions: IHC 1:50-1:500 |
| Isotype: IgG1, kappa | | |

Applications

| | |
|------------------------------------|--|
| Tested Applications: FC, IHC | Positive Controls: IHC : mouse spleen tissue, |
| Cited Applications: IF, IHC, WB | |
| Species Specificity: Mouse | |
| Cited Species: human, mouse | |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Foxp3 (forkhead box P3), also named as IPEX, JM2 and scurf, is a member of the forkhead transcription factor family and is essential for normal immune homeostasis (PMID: 11138001; 20429413). Foxp3 is specifically expressed in CD4+ CD25+ regulatory T cells and is crucial for their development and suppressive activity (PMID: 12612578; 12612581). In scurfy mouse, disruption of Foxp3 results in the fatal lymphoproliferative disorder attributed to the lack of an immune-suppressive component in the immune system (PMID: 25683611; 11138001). Similar to mice, genetic defects in human Foxp3 are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX) which also known as X-linked autoimmunity-immunodeficiency syndrome (PMID: 11137993).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------------|-----------|---------------|-------------|
| Yuki Hanamatsu | 36604986 | Thorac Cancer | IHC |
| Tongguan Tian | 37938970 | Cell Rep | WB |
| Wakana Chikaishi | 37674354 | Thorac Cancer | IF |

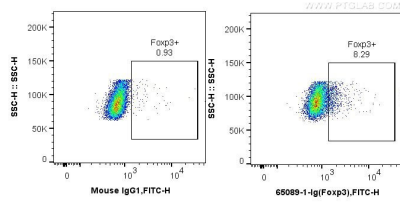
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide, pH 7.3.

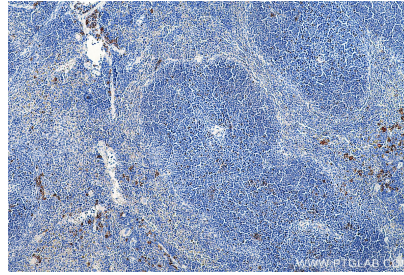
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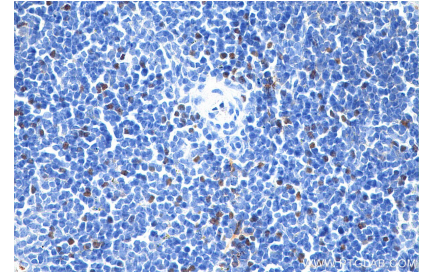
Selected Validation Data



1X10⁶ mouse splenocytes were intracellularly stained with 0.5 ug Anti-Mouse Fcp3 (65089-1-Ig, Clone:3G3) and FITC anti-Mouse IgG1 Antibody at dilution 1:50, or stained with 0.5 ug mouse IgG1 isotype control and FITC anti-Mouse IgG1 Antibody at dilution 1:50. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 65089-1-Ig (Fcp3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 65089-1-Ig (Fcp3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).