

For Research Use Only

Anti-Mouse Foxp3 (3G3)

Catalog Number: 65089-1-Ig 9 Publications



Basic Information

Catalog Number:

65089-1-Ig

Size:

500ug, 500 µg/ml

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC132333

GeneID (NCBI):

20371

Full Name:

forkhead box P3

Purification Method:

Affinity purification

CloneNo.:

3G3

Recommended Dilutions:

IHC: 1:50-1:500

FC (Intra): 0.25 ug per 10⁶ cells in 100 µl suspension

FC:

Applications

Tested Applications:

IHC, FC (Intra)

Cited Applications:

IHC, IF

Species Specificity:

Mouse

Cited Species:

mouse

Positive Controls:

IHC : mouse spleen tissue,

FC (Intra) : mouse splenocytes,

FC : mouse splenocytes,

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 scurf 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
Cristina Mas-Bargues	40106552	Sci Adv	IF
Guochen Li	39920704	J Transl Med	IF

Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

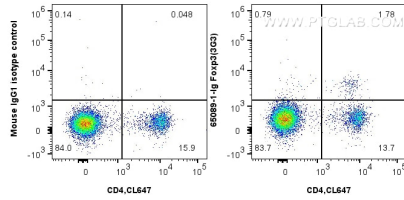
For technical support and original validation data for this product please contact:

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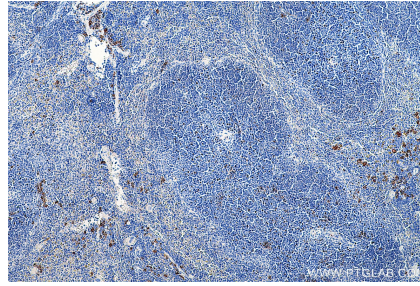
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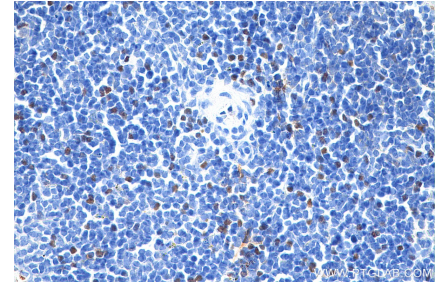
Selected Validation Data



1x10⁶ C57BL/c mouse splenocytes were intracellularly stained with 0.25 ug Anti-Mouse Fcγ3 (3G3) (65089-1-Ig, Clone: 3G3) or 0.25 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21), FITC anti-Mouse IgG1 Antibody, and CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) (CL647-65104, Clone: GK1.5). 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 (Fcγ3 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 (Fcγ3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).