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Anti-FOXP3 Mouse mAb [69H47]

Catalog No.: A32021

Basic Information

Catalog No. (Cat.No.)	A32021
Host species	Mouse
Reactivity	Human
Applications	IF,Flow Cyt
Synonyms	FOXP3,IPEX,IPEX1,Scurfin,forkhead box protein P3

Product Information

Target	FOXP3
Molecular Weight(Calculated)	NA
Molecular Weight(Observed)	NA
Isotype	Mouse IgG1/Kappa
Conjugation	NA
Concentration	0.5 mg/ml
Clonality	Monoclonal
Clone No.	69H47
RRID	NA
Storage buffer	PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
IF	1:200-1:1000
Flow Cyt	1 μg/10^6 cells

Target Information

Protein Name	Fork-head box P3
Gene Name	*FOXP3*
Domain	NA
Background	FOXP3 (Forkhead Box Protein P3) is a specific member of the forkhead box transcription factor family, specifically expressed in human regulatory T cells (Treg). It plays a core role in regulating immune homeostasis, maintaining immune tolerance and inhibiting inflammatory responses. As a key transcription factor for the development and functional maturation of Treg cells, FOXP3 regulates the expression of multiple immune-related genes, inhibits the excessive activation of effector T cells, reduces abnormal immune responses and avoids autoimmune damage. Downregulated expression or functional defects of FOXP3 lead to Treg cell dysfunction and disrupted immune tolerance, causing autoimmune diseases such as systemic lupus erythematosus and rheumatoid arthritis, and facilitating tumor immune escape and tumor proliferation and metastasis.