

FOXP3 antibody

Product Information

Catalog No.:	FNab03208
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Transcriptional regulator which is crucial for the development and inhibitory function of regulatory T-cells(Treg). Plays an essential role in maintaining homeostasis of the immune system by allowing the acquisition of full suppressive function and stability of the Treg lineage, and by directly modulating the expansion and function of conventional T-cells. Can act either as a transcriptional repressor or a transcriptional activator depending on its interactions with other transcription factors, histone acetylases and deacetylases. The suppressive activity of Treg involves the coordinate activation of many genes, including CTLA4 and TNFRSF18 by FOXP3 along with repression of genes encoding cytokines such as interleukin-2(IL2) and interferon-gamma(IFNG). Inhibits cytokine production and T-cell effector function by repressing the activity of two key transcription factors, RELA and NFATC2(PubMed:15790681). Mediates transcriptional repression of IL2 via its association with histone acetylase KAT5 and histone deacetylase HDAC7(PubMed:17360565). Can activate the expression of TNFRSF18, IL2RA and CTLA4 and repress the expression of IL2 and IFNG via its association with transcription factor RUNX1(PubMed:17377532). Inhibits the differentiation of IL17 producing helper T-cells(Th17) by antagonizing RORC function, leading to down-regulation of IL17 expression, favoring Treg development(PubMed:18368049). Inhibits the transcriptional activator activity of RORA(PubMed:18354202). Can repress the expression of IL2 and IFNG via its association with transcription factor IKZF4(By similarity).

Immunogen information

Immunogen: forkhead box P3

Synonyms: Forkhead box protein P3|Scurfin|Forkhead box protein P3, C-terminally processed|Forkhead box protein P3 41 kDa form|FOXP3|IPEX

Observed MW: 47-50 kDa

Uniprot ID : Q9BZS1

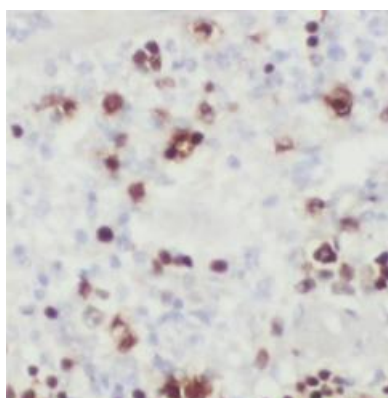
Application

Reactivity: Human, Mouse, Rat

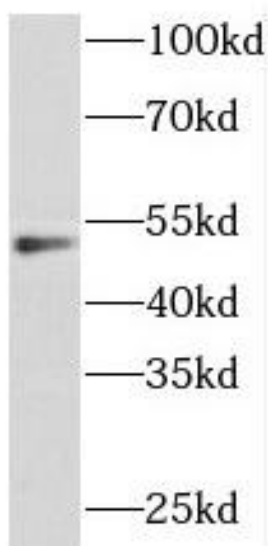
Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded mouse spleen tissue slide using FNab03208(FOXP3 antibody) at dilution of 1:100



HeLa cells were subjected to SDS PAGE followed by western blot with FNab03208(FOXP3 antibody) at dilution of 1:1000