

FOXP3 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700914

(See product label for lot information)



Clone/PAD: 5H10L18
Isotype: IgG
Gene ID: 50943
Protein Acc. no.: Q9BZS1
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

See www.invitrogen.com/antibodies for protocols

Validated for use in WB

Reactivity

Human

Immunogen

recombinant protein

Sequence Identity

Human

Sequence Homology

Bovine, cat, swine, and rat

Expected Reactivity

Based on sequence identity and similarity, reactivity to human and bovine, cat, swine, and rat is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

FOXP3 (FORKHEAD BOX P3) belongs to the FOX protein family and the master regulator in T-Cell development and function (1). The gene encodes protein which is a member of the forkhead/winged-helix family of transcriptional regulators (2,3). It is shown that in human breast and colon cancer cells, expression of FOXP3 is regulated by p53 in response to the DNA damage. FOXP3 is selectively expressed by a subset of CD4+ T cells, known as T regulatory (Treg) cells, which suppress effector T cell function in response to self or foreign antigens. T regulatory (Treg) cells, known to suppress T cell activity during response to foreign or self antigen selectively express FOXP3 (4, 5).

References

1. Jung, D.J., Jin, D.H., Hong, S.W., Kim, J.E., Shin, J.S., Kim, D., Cho, B.J., Hwang, Y.I., Kang, J.S., and Lee, W.J. Foxp3 expression in p53-dependent DNA damage responses. *The Journal of biological chemistry* 285, 7995-8002.
2. Schubert, L.A., Jeffery, E., Zhang, Y., Ramsdell, F., and Ziegler, S.F. (2001). Scurfin (FOXP3) acts as a repressor of transcription and regulates T cell activation. *The Journal of biological chemistry* 276, 37672-37679.
3. Zhang, L., and Zhao, Y. (2007). The regulation of Foxp3 expression in regulatory CD4(+)CD25(+)T cells: multiple pathways on the road. *Journal of cellular physiology* 211, 590-597.
4. Coffey, P.J., and Burgering, B.M. (2004). Forkhead-box transcription factors and their role in the immune system. *Nature reviews* 4, 889-899.
5. Curiel, T.J. (2007). Regulatory T-cell development: is Foxp3 the decider? *Nature medicine* 13, 250-253.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

Applications:

	Species	Test Material	Concentration
Western Blotting	Human	FOXP3 transfected into HEK293	1-2 µg/ml

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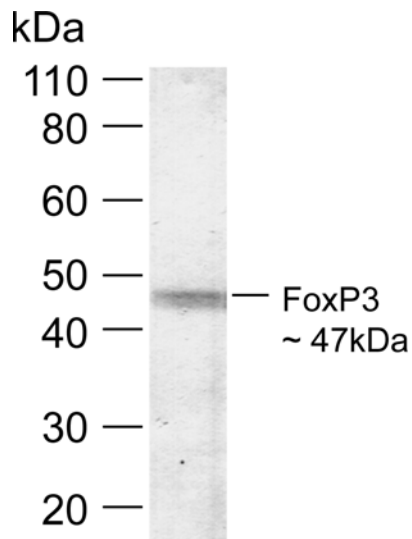
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Western Blot of FOXP3 transfected HEK293 cells labeled with rabbit anti-FOXP3 (Cat. No. 700914).

Rabbit anti-FOXP3 (1 µg/ml) was used to label FOXP3 in transfected HEK293 cell lysate (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No. WB7105).

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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