Datasheet for ABIN7602780

anti-FOXP1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	FOXP1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-FOXP1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human FOXP1, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-FOXP1 Antibody Picoband® (ABIN7602780). Tested in IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	FOXP1
Alternative Name:	FOXP1 (FOXP1 Products)
Background:	Synonyms: Ornithine carbamoyltransferase, mitochondrial,2.1.3.3,Ornithine transcarbamylase,OTCase,OTC, Tissue Specificity: Mainly expressed in liver and intestinal mucosa. Background: FOXP1 ("forkhead box P1") is a gene that is necessary for the proper development of the brain and lung in mammals. It is a member of the large FOX family of transcription factors. This gene belongs to subfamily P of the forkhead box (FOX) transcription factor family. Forkhead box transcription factors play important roles in the regulation of tissue- and cell type-specific gene transcription during both development and adulthood. Forkhead box P1 protein contains both DNA-binding- and protein-protein binding-domains. This gene may act as a tumor suppressor as it is lost in several tumor types and maps to a chromosomal region (3p14.1) reported to contain a tumor suppressor gene (s). Alternative splicing results in multiple transcript variants encoding different isoforms. It was shown that the embryonic stem cell (ESC)-specific isoform of FOXP1 stimulates the expression of transcription factor genes required for pluripotency, including OCT4, NANOG, NR5A2, and GDF3, while concomitantly repressing genes required for ESC differentiation. This isoform also promotes the maintenance of ESC pluripotency and contributes to efficient reprogramming of somatic cells into induced pluripotent stem cells. These results reveal a pivotal role for an Alternative splicing event in the regulation of pluripotency through the control of critical ESC-specific transcriptional programs (2).
Molecular Weight:	82 kDa
Gene ID:	27086
UniProt:	Q9H334
Pathways:	Chromatin Binding, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Monkey Immunohistochemistry (Paraffin-embedded Section), 1-2 µg/mL, Human, Mouse, Rat
	1. Banham, A. H., Beasley, N., Campo, E., Fernandez, P. L., Fidler, C., Gatter, K., Jones, M., Mason, D. Y., Prime, J. E., Trougouboff, P., Wood, K., Cordell, J. L.The FOXP1 winged helix transcription factor is a novel candidate tumor suppressor gene on chromosome 3p.Cancer Res. 61: 8820-

Application Details

	8829, 2001. 2. Feng, X., Ippolito, G. C., Tian, L., Wiehagen, K., Oh, S., Sambandam, A., Willen, J., Bunte, R. M., Maika, S. D., Harriss, J. V., Caton, A. J., Bhandoola, A., Tucker, P. W., Hu, H.Foxp1 is an essential transcriptional regulator for the generation of quiescent naive T cells during thymocyte development.Blood 115: 510-518, 2010. 3. Shi, C., Sakuma, M., Mooroka, T., Liscoe, A., Gao, H., Croce, K. J., Sharma, A., Kaplan, D., Greaves, D. R., Wang, Y., Simon, D. I.Down-regulation of the forkhead transcription factor Foxp1 is required for monocyte differentiation and macrophage function.Blood 112: 4699-4711, 2008.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.