

Anti-Forkhead box protein P1 FOXP1 Antibody

Catalog Number: PA1593

About FOXP1

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).

Overview

Product Name	Anti-Forkhead box protein P1 FOXP1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Forkhead box protein P1(FOXP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9H334

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human FOXP1(657-677aa HSPDFDHDHRYEDEVNEDME), identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Human, Mouse, By Heat Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

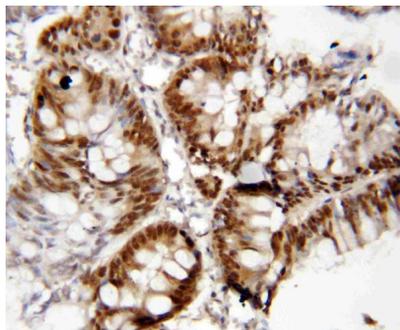
Anti-Forkhead box protein P1 FOXP1 Antibody (PA1593) Images



Anti-FOXP1 antibody, PA1593, Western blotting

Lane 1: Rat Spleen Tissue Lysate

Lane 2: COLO320 Cell Lysate



Anti-FOXP1 antibody, PA1593, IHC(P)
IHC(P): Human Rectal Cancer Tissue

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