FOXP1 (H-70): sc-66896



The Power to Question

BACKGROUND

The FOX family of transcription factors is a large group of proteins that share a common DNA binding domain termed a winged-helix or forkhead domain. During early development, FOXP1 and FOXP2 are expressed abundantly in the lung, with lower levels of expression in neural, intestinal and cardiovascular tissues, where they act as transcription repressors. FOXP1 is widely expressed in adult tissues, while neoplastic cells often exhibit a dramatic change in expression level or localization of FOXP1. The gene encoding human FOXP1 maps to chromosome 3p13. The gene encoding human FOXP2 maps to chromosome 7q31.1. The gene encoding FOXP3, a third member of this family, maps to chromosome Xp11.23-Xq13.3. Mutations in this gene cause IPEX, a fatal, X-linked inherited disorder characterized by immune dysregulation. The FOXP3 protein, also known as scurfin, is essential for normal immune homeostasis. Specifically, FOXP3 represses transcription through a DNA binding forkhead domain, thereby regulating T cell activation.

REFERENCES

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- Bennett, C.L., et al. 2001. The immune dysregulation, polyendocrinopathy, enteropathy, X-linked syndrome (IPEX) is caused by mutations of FOXP3.
 Nat. Genet. 27: 20-21.
- Shu, W., et al. 2001. Characterization of a new subfamily of winged-helix/ forkhead (Fox) genes that are expressed in the lung and act as transcriptional repressors. J. Biol. Chem. 276: 27488-27497.
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CHROMOSOMAL LOCATION

Genetic locus: FOXP1 (human) mapping to 3p13; Foxp1 (mouse) mapping to 6 D3.

SOURCE

FOXP1 (H-70) is a rabbit polyclonal antibody raised against amino acids 551-620 mapping near the C-terminus of FOXP1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-66896 X, 200 μg /0.1 ml.

APPLICATIONS

FOXP1 (H-70) is recommended for detection of FOXP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FOXP1 (H-70) is also recommended for detection of FOXP1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FOXP1 siRNA (h): sc-44583, FOXP1 siRNA (m): sc-44584, FOXP1 shRNA Plasmid (h): sc-44583-SH, FOXP1 shRNA Plasmid (m): sc-44584-SH, FOXP1 shRNA (h) Lentiviral Particles: sc-44583-V and FOXP1 shRNA (m) Lentiviral Particles: sc-44584-V.

FOXP1 (H-70) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of FOXP1: 85 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **FOXP1 (A-2)**: **sc-398811** or **FOXP1 (G-9)**: **sc-376650**, our highly recommended monoclonal alternatives to FOXP1 (H-70).

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com