

Basic Information

Product Name	Anti-FOXP3 Antibody
Gene Name	FOXP3
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human FOXP3 recombinant protein (Position: R27-R337).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

FOXP3(forkhead box P3) is a protein involved in immune system responses. The human FOXP3 genes contain 11 coding exons. Exon-intron boundaries are identical across the coding regions of the mouse and human genes. By genomic sequence analysis, the FOXP3 gene maps to the p arm of the X chromosome(specifically, Xp11.23). A member of the FOX protein family, FOXP3 appears to function as a master regulator in the development and function of regulatory T cells. While the precise control mechanism has not yet been established, FOX proteins belong to the forkhead/winged-helix family of transcriptional regulators and are presumed to exert control via similar DNA binding interactions during transcription.

Selected Validation Data

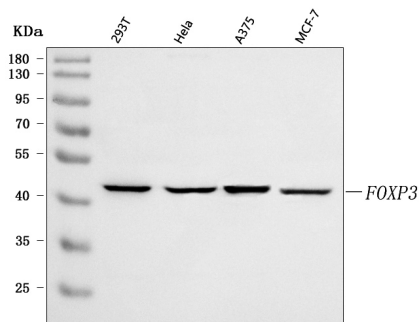


Figure 1. Western blot analysis of anti-FOXP3 antibody (A00011-3).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,

Lane 2: human HeLa whole cell lysates,

Lane 3: human A375 whole cell lysates,

Lane 4: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-FOXP3 antigen affinity purified polyclonal antibody (A00011-3) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054).

The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FOXP3 at approximately 47 kDa. The expected band size for FOXP3 is at 47 kDa.