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FOXP3 Polyclonal Antibody, DyLight 550

Catalog Number **PA5-22950**

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	A synthetic peptide made to the N-terminal region of human FOXP3 (between residues 1-50).
Conjugate	DyLight® 550
Form	Liquid
Concentration	1 mg/mL
Storage Conditions	4° C, store in dark

Species Reactivity	
Species reactivity	Human, Mouse

Tested Applications	Dilution *
Western Blot (WB)	1:1,000-1:5,000

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody reacts weakly with human samples.

Background/Target Information

FOXP3 (Forkhead box protein 3) is a member of the forkhead/winged-helix family of transcriptional regulators, highly conserved across mammals, and essential for normal immune homeostasis. FOXP3 is 381 amino acids long, stably and constitutively expressed at a high level in CD25 + CD4 positive regulatory T cells, a low level in CD4-positive/CD25-negative cells, and is absent in CD4-negative/CD8-positive T cells. FOXP3 may be a master regulatory gene, and a more specific marker of regulatory T cells. Defects in the gene encoding FOXP3 protein cause the scurfy phenotype in mice. In humans FOXP3 defects play a role in IPEX syndrome (immune dysfunction, polyendocrinopathy, enteropathy, X-linked syndrome), also known as X-linked autoimmunity-allergic dysregulation (XLAAD) syndrome. Transcript variants of FOXP3 encoding different isoforms have been identified. In human breast and colon cancer cells, expression of FOXP3 is regulated by p53 in response to the DNA damage.

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