Best Tools for immunology Research

FoxP3 Monoclonal Antibody

Catalog No :	YM0286
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	FoxP3
Fields :	>>Th17 cell differentiation;>>Inflammatory bowel disease
Gene Name :	FOXP3
Protein Name :	Forkhead box protein P3
Human Gene Id :	50943
Human Swiss Prot No :	Q9BZS1
Mouse Gene Id :	20371
Mouse Swiss Prot No :	Q99JB6
Immunogen :	Purified recombinant fragment of human FoxP3 expressed in E. Coli.
Specificity :	FoxP3 Monoclonal Antibody detects endogenous levels of FoxP3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 47kD

P References :

1. Roncador G et al. Eur J Immunol. 2005. 35:1681-1691.
2. Yisong YW. PNAS. 2005 102 (14): 5126-5131.

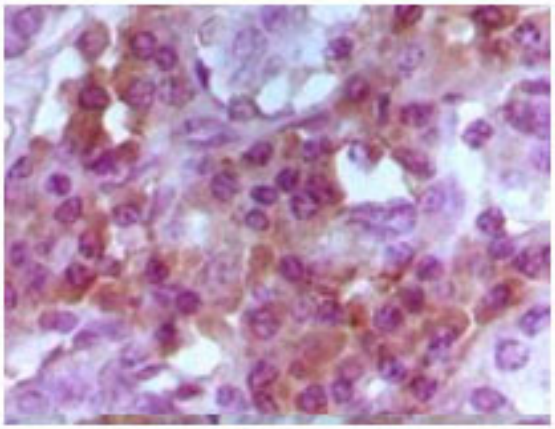
Background : The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX), also known as X-linked autoimmunity-immunodeficiency syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

Function : disease:Defects in FOXP3 are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX) [MIM:304790]; also known as X-linked autoimmunity-immunodeficiency syndrome. IPEX is characterized by neonatal onset insulin-dependent diabetes mellitus, infections, secretory diarrhea, trombocytopenia, anemia and eczema. It is usually lethal in infancy.,function:Probable transcription factor. Plays a critical role in the control of immune response.,online information:FOXP3 entry,online information:FOXP3 mutation db,similarity:Contains 1 C2H2-type zinc finger.,similarity:Contains 1 forkhead DNA-binding domain.,

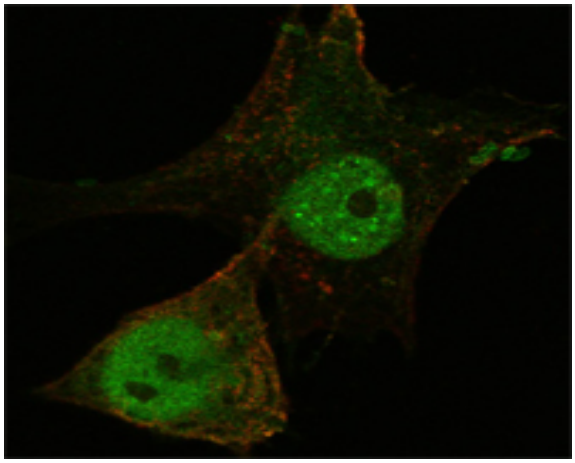
Subcellular Location : Nucleus . Cytoplasm . Predominantly expressed in the cytoplasm in activated conventional T-cells whereas predominantly expressed in the nucleus in regulatory T-cells (Treg). The 41 kDa form derived by proteolytic processing is found exclusively in the chromatin fraction of activated Treg cells (By similarity). .

Products Images

Western Blot analysis using FoxP3 Monoclonal Antibody against truncated Foxp3 recombinant (1) and HEK293 cell lysate (2).



Immunohistochemistry analysis of paraffin-embedded human lymphocyto tissue, showing cytoplasmic and nuclear localization with DAB staining using FoxP3 Monoclonal Antibody.



Confocal immunofluorescence analysis of PANC-1 cells using FoxP3 Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.