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# Rabbit Anti-FoxP3 antibody

SL0269R

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| **Product Name:** | FoxP3 |
| **Chinese Name:** | 叉头蛋白P3抗体 |
| **Alias:** | AIID; AIID; DIETER; DIETER; Forkhead box P3; Forkhead box protein P3; FOXP3_HUMAN; FOXP3delta7; Immune dysregulation polyendocrinopathy enteropathy X linked; Immunodeficiency polyendocrinopathy enteropathy X linked; IPEX; IPEX; JM2; JM2; MGC141961; MGC141963; OTTHUMP00000025832; OTTHUMP00000025833; OTTHUMP00000226737; PIDX; PIDX; SCURFIN; SCURFIN; XPID; XPID. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat, |
| **Applications:** | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt= 3μg/TestIF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 47kDa |
| **Cellular localization:** | The nucleus |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human FoxP3:11-100/431 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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:**
Probable transcription factor. Plays a critical role in the control of immune response.

**Subunit:**
Interacts with IKZF3.

**Subcellular Location:**
Nucleus (Potential).

**Post-translational modifications:**
Acetylation on lysine residues stabilizes FOXP3 and promotes differentiation of T-cells into induced regulatory T-cells (iTregs) associated with suppressive functions. Deacetylated by SIRT1.

**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.

**Similarity:**
Contains 1 C2H2-type zinc finger.
Contains 1 fork-head DNA-binding domain.

**SWISS:**
Q9BZS1

**Gene ID:**
50943

**Database links:**

Entrez Gene: 50943Human

Entrez Gene: 20371Mouse

Entrez Gene: 317382Rat

Omim: 300292Human

SwissProt: Q9BZS1Human

SwissProt: Q99JB6Mouse

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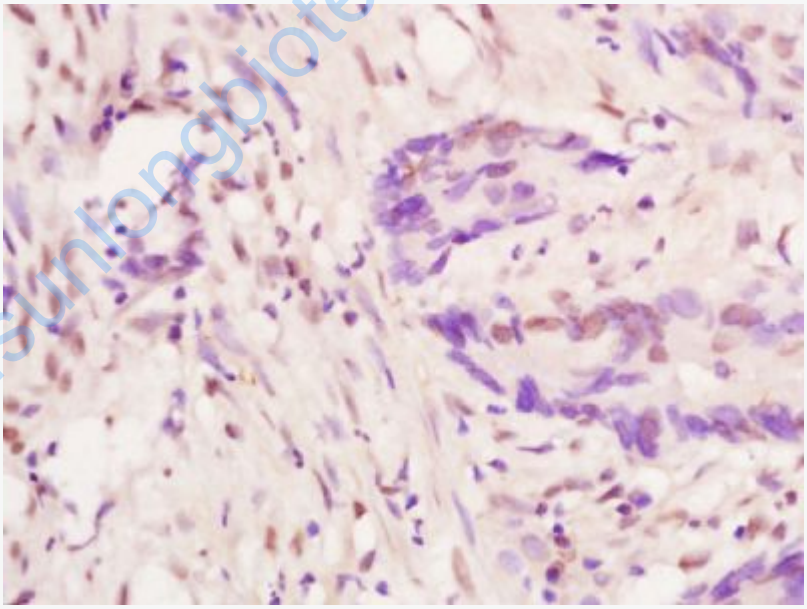
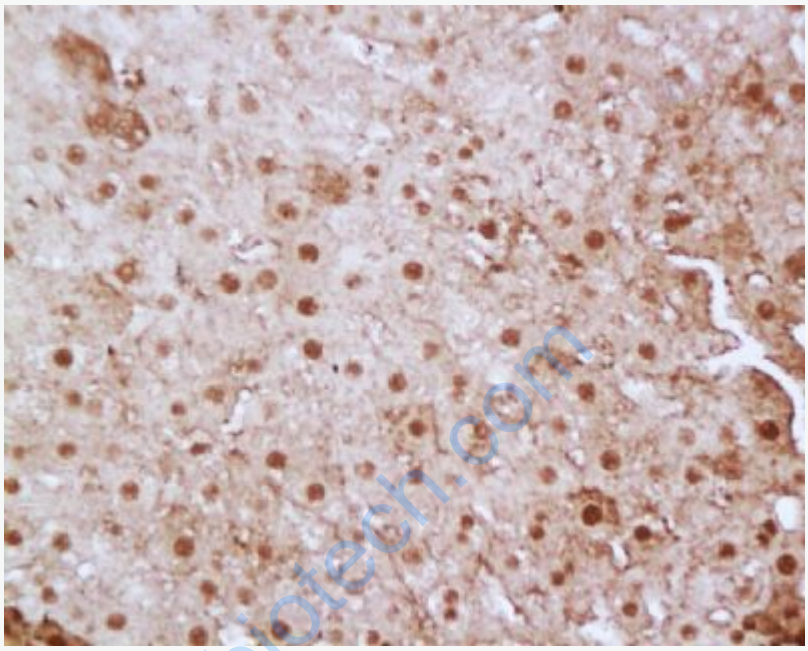
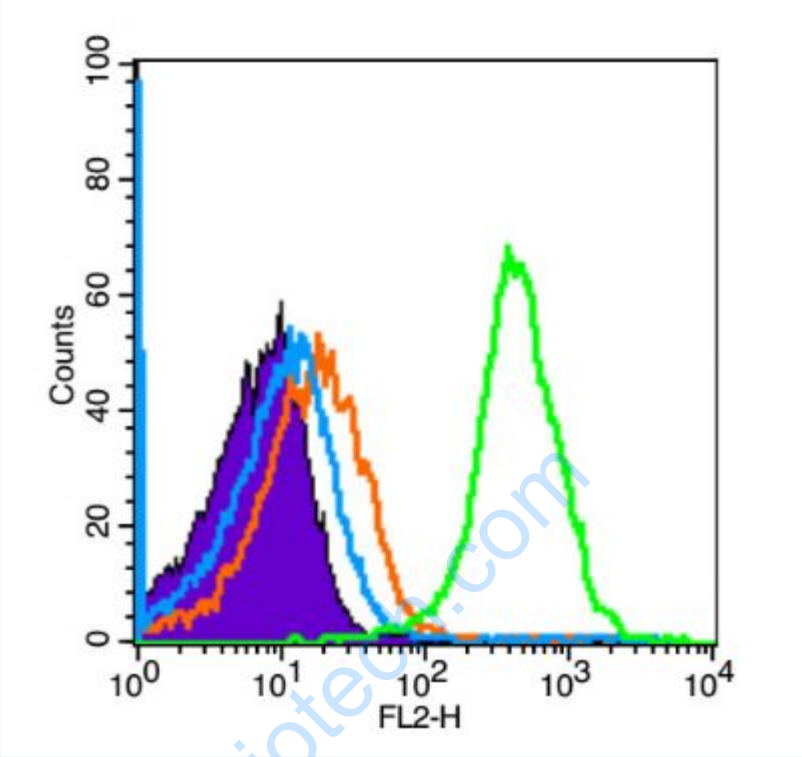
| | SwissProt: D3ZKI1Rat<br><br>Unigene: 247700Human<br><br>Unigene: 182291Mouse<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.<br><br>叉头蛋白3(FOXP3)是FOX蛋白家族成员之一,主要为T细胞转录蛋白，主要表达于T细胞+CD4+CD25,并调节该类T细胞的发育和功能.<br>FOXP3的表达受转化生长因子-β雌激素和糖皮质激素等调节,通过竞争性抑制活化TThe nucleus因子的转录活性而发挥作用.自身免疫性Diabetes患者体内CD4+CD25+T细胞减少,诱导FOXP3的表达或过继转移CD4+CD25+T细胞有可能预防自身免疫性Diabetes |
| **Picture:** |  <br>Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FoxP3) Polyclonal Antibody, Unconjugated (SL0269R) at 1:200 overnight at 4°C, followed by operating |

according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FoxP3) Polyclonal Antibody, Unconjugated (SL0269R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.




Blank control (Black line): Mouse spleen (Black).

Primary Antibody (green line): Rabbit Anti-FoxP3 antibody (SL0269R)

Dilution: 3µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA goat serum to block non-specific protein-protein interactions for 15 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min

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| | at room temperature. Acquisition of 20,000 events was performed. |