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Rabbit Anti-FoxP1/AF350 Conjugated antibody

SL1275R-AF350

Product Name	Anti-FoxP1/AF350
Chinese Name	AF350 标记的叉头蛋白 P1 抗体
Alias	FLJ23741; Fork head related protein like B; Forkhead box P1; Forkhead box protein P1; 12CC4; foxp1; FOXP1_MOUSE; FOX P1; FOXP 1; Glutamine rich factor 1; hFKH1B; HSPC215; MGC12942; MGC88572; MGC99551; QRF 1; QRF1.
Research Area	Tumour immunology Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Chicken,Dog,Cow)
Applications	ICC/IF=1:100-500,Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	79kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse FoxP1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** This gene belongs to subfamily P of the forkhead box (FOX) transcription factor family. Forkhead box transcription factors play important roles in the regulation of tissue- and cell type-specific gene transcription during both

development and adulthood. Forkhead box P1 protein contains both DNA-binding- and protein-protein binding-domains. This gene may act as a tumor suppressor as it is lost in several tumor types and maps to a chromosomal region (3p14.1) reported to contain a tumor suppressor gene(s). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Function:
Transcriptional repressor. It plays an important role in the specification and differentiation of lung epithelium. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Essential transcriptional regulator of B cell development.

Subunit:
Forms homodimers and heterodimers with FOXP2 and FOXP4. Dimerization is required for DNA-binding. Interacts with CTBP1.

Subcellular Location:
Nucleus.

Tissue Specificity:
Highest expression in the lung, brain, and spleen. Lower expression in heart, skeletal muscle, kidney, small intestine (isoform 3 not present) and liver.

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

Database links:

Entrez Gene: 27086?/span>Human

Entrez Gene: 108655?/span>Mouse

Entrez Gene: 297480?/span>Rat

Omim: 605515?/span>Human

SwissProt: Q9H334?/span>Human

SwissProt: P58462?/span>Mouse

SwissProt: Q498D1?/span>Rat

Unigene: 431498?/span>Human

Unigene: 59368?/span>Human

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Unigene: 234965?/span>Mouse

Unigene: 485266?/span>Mouse

Unigene: 33321?/span>Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Hox 程序的信息输出并有调节运动神经元功能。FoxP1 在 Hox 敏感型运动柱中表达，使 FoxP1 失活能消除运动神经元 Hox 网络的信息输出，并将脊髓运动系统回复到原始状。
FoxP1 的减少同样改变运动神经元连结性模式， 肢体运动神经似乎会随机选择目标肌肉和作用路径。单个的 FoxP1 转录因子能以 Hox 辅助因子的形式整合各种神经元种类的连结性。
Hox 蛋白：哺乳动物的同源盒基因由 61 个氨基酸残基组成的蛋白质保守结构域,称同源异型域。Hox 基因在动物体的体节结构分化等空间信息调控中起着重要作用,按特异的空间模式赋予每一体节其自身的特点。Hox 基因不但影响胚胎发育，在生殖过程中也起着重要的调节作用.