SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-FoxP1/AF647 Conjugated antibody

Catalog Number: SL1275R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-FoxP1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from mouse FoxP1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	Flow-Cyt=1μg/Test ICC/IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Chicken,Dog,Cow)
Background:	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.

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

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	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 **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 information output of the program and regulation of motor neuron function. FoxP1 is expressed in Hox-sensitive motor columns; inactivation of FoxP1 eliminates the information output of the motor neuron Hox network and reverts the spinal motor system to a primitive state. Reduction of FoxP1 likewise alters the connectivity pattern of motor neurons; limb motor neurons appear to randomly select target muscles and action pathways. A single FoxP1 transcription factor can integrate the connectivity of various neuron types in the form of a Hox cofactor. Hox protein: Mammalian Homologous box genes consist of a conserved protein domain composed of 61 amino acid residues, called the homeodomain. Hox genes play an important role in the regulation of spatial information such as the differentiation of body segment structures in animals, conferring on each body segment its own characteristics according to a specific spatial pattern. Hox genes not only affect embryonic development, but also play an important regulatory role in reproductive processes.