



## Rabbit Anti-FOXK1 antibody

SL16168R

<b>Product Name:</b>	FOXK1
<b>Chinese Name:</b>	FOXK1蛋白抗体
<b>Alias:</b>	A630048H08Rik; AI463295; ENSMUSG00000075577; FHX; Fork head; Forkhead box protein K1; FOXJ2 forkhead factor; FOXK1; FOXK1_HUMAN; Gm10868; MNF; Myocyte nuclear factor.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	75kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human FOXK1:101-200/733
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The FOX family of transcription factors share a common DIUA binding domain termed a winged-helix or forkhead domain. Many FOX proteins play important roles in development, metabolism, cancer and aging. In skeletal muscles, undifferentiated myogenic stem cells (satellite cells) can mobilize to regenerate myofibers in response to injury. FOXK1 is expressed in these cells and regulates cell cycle progression through

an interaction with its downstream target the cyclin-dependent kinase inhibitor p21 (CIP). Loss of FOXX1 in mice results in growth retardation and a severe impairment in skeletal muscle regeneration following injury. FOXX1 also shows expression in immature tissues of brain, eye, heart, lung and thymus. It also is predominantly expressed in many malignant tissues, such as tumors of the brain, colon and lymph node.

**Function:**

Transcriptional regulator that binds to the upstream enhancer region (CCAC box) of myoglobin gene. Has a role in myogenic differentiation and in remodeling processes of adult muscles that occur in response to physiological stimuli.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Expressed both developing and adult tissues. In adults, significant expression is seen in tumors of the brain, colon and lymph node.

**Similarity:**

Contains 1 FHA domain.

Contains 1 fork-head DNA-binding domain.

**SWISS:**

P85037

**Gene ID:**

221937

**Database links:**

[Entrez Gene: 221937](#) Human

[Entrez Gene: 17425](#) Mouse

[SwissProt: P85037](#) Human

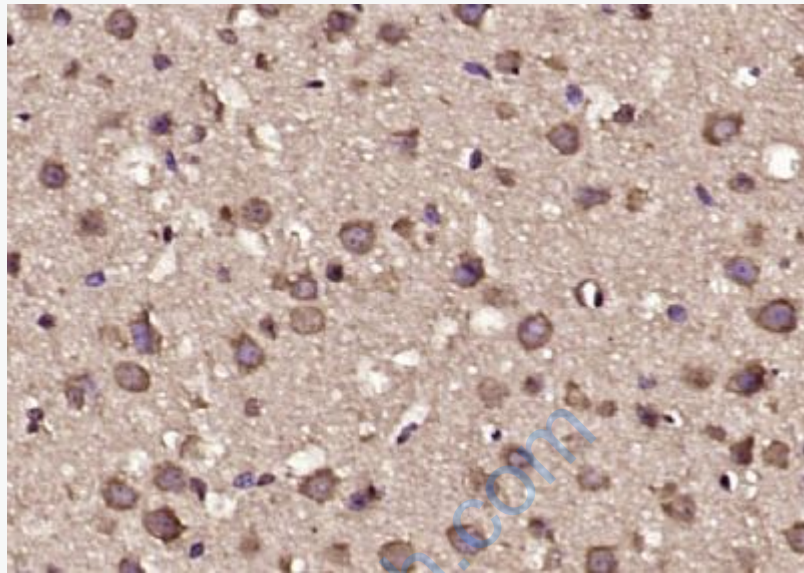
[SwissProt: P42128](#) Mouse

[Unigene: 487393](#) Human

[Unigene: 24214](#) Mouse

**Important Note:**

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



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (mouse brain); 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 (FOXK1) Polyclonal Antibody, Unconjugated (SL16168R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.