



## Rabbit Anti-TBC1D4 antibody

SL23728R

<b>Product Name:</b>	TBC1D4
<b>Chinese Name:</b>	TBC结构域TBCD4蛋白抗体
<b>Alias:</b>	TBCD4; Acrg embryonic lethality (mouse) minimal region ortholog; Acrg embryonic lethality minimal region ortholog; Acrg embryonic lethality mouse minimal region ortholog; Akt substrate of 160 kDa; AS 160; AS160; TBC (Tre 2 BUB2 CDC16) domain containing protein; TBC Tre 2 BUB2 CDC16 domain containing protein; TBC1 D4; TBC1 domain family member 4; Tbc1d4; TBCD4 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,
<b>Applications:</b>	IHC-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>	167kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TBC1D4:701-800/1398
<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>	May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Isoform 2 promotes insulin-induced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake.

**Function:**

May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Isoform 2 promotes insulin-induced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake.

**Subunit:**

Cytoplasm. Note=Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells.

**Subcellular Location:**

Cytoplasm. Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells.

**Tissue Specificity:**

Widely expressed. Isoform 2 is the highest overexpressed in most tissues. Isoform 1 is highly expressed in skeletal muscle and heart, but was not detectable in the liver nor in adipose tissue. Isoform 2 is strongly expressed in adrenal and thyroid gland, and also in lung, kidney, colon, brain and adipose tissue. Isoform 2 is moderately expressed in skeletal muscle. Expressed in pancreatic Langerhans islets, including beta cells (at protein level). Expression is decreased by twofold in pancreatic islets in type 2 diabetes patients compared to control subjects. Up-regulated in T-cells from patients with atopic dermatitis.

**Post-translational modifications:**

Phosphorylated by AKT1; insulin-induced. Also phosphorylated by AMPK in response to insulin. Insulin-stimulated phosphorylation is required for SLC2A4/GLUT4 translocation. Has no effect on SLC2A4/GLUT4 internalization. Physiological hyperinsulinemia increases phosphorylation in skeletal muscle. Insulin-stimulated phosphorylation is reduced by 39% in type 2 diabetic patients.

**Similarity:**

Contains 2 PID domains.  
Contains 1 Rab-GAP TBC domain.

**SWISS:**

O60343

**Gene ID:**

9882

**Database links:**

[Entrez Gene: 9882](#) Human

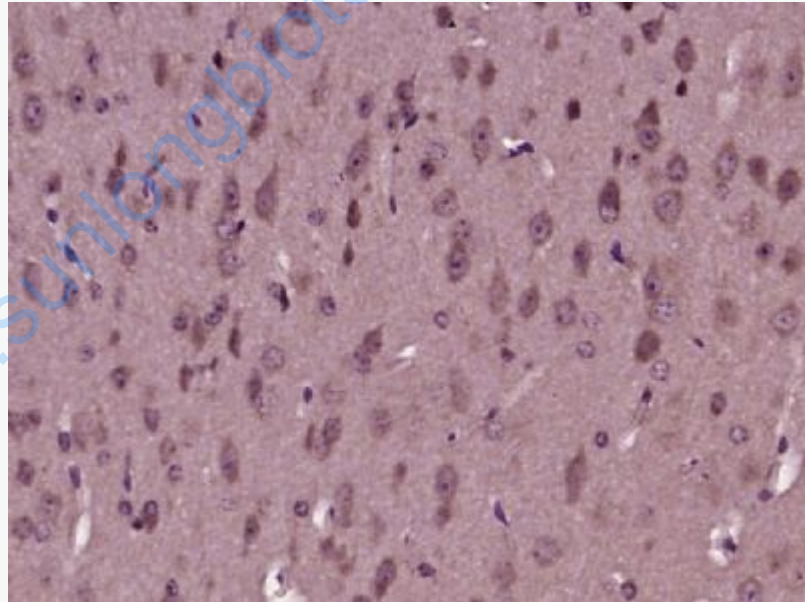
[Entrez Gene: 210789](#) Mouse

[Omin: 612465](#) Human  
[SwissProt: O60343](#) Human  
[SwissProt: Q8BYJ6](#) Mouse  
[Unigene: 173802](#) Human  
[Unigene: 210891](#) Human  
[Unigene: 267385](#) Mouse  
[Unigene: 320639](#) 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 tissue); 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 (TBC1D4) Polyclonal Antibody, Unconjugated (SL23728R) at 1:400 overnight at 4°C, followed by operating

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