

## TBC1D4 (Phospho Ser318) Rabbit pAb

CatalogNo: YP1263 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 145kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:1000-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human AS160 (Ser318)

**Specificity** This antibody detects endogenous levels of Human AS160 (phospho-Ser318)

### Target Information

**Gene name** TBC1D4 AS160 KIAA0603

**Protein Name** AS160 (Ser318)

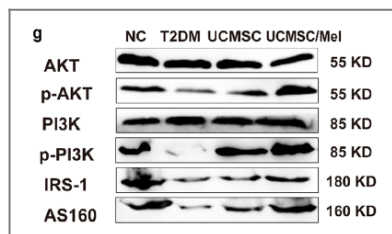
Organism	Gene ID	UniProt ID
Human	<a href="#">9882</a> ;	<a href="#">O60343</a> ;
Mouse	<a href="#">210789</a> ;	<a href="#">Q8BYJ6</a> ;

**Cellular Localization** 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.

**Function** Disease:May be involved in atopic dermatitis (AD) . ,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. ,PTM:Insulin-stimulated phosphorylation is required for SLC2A4/GLUT4 translocation. ,PTM:Phosphorylated by AKT1; insulin-induced. ,PTM:Physiological hyperinsulinemia increases phosphorylation in skeletal muscle. Insulin-stimulated phosphorylation is reduced by 39% in type 2 diabetic patients. ,similarity:Contains 1 Rab-GAP TBC domain. ,similarity:Contains 2 PID domains. ,subcellular location:Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells. ,tissue specificity:Widely expressed , but differential expression for isoforms 1 and 2 , with highest overall expression of isoform 2 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 strongly expressed in adrenal and thyroid gland , and also in lung , kidney , colon , brain and adipose tissue. Moderate isoform 2 expression 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. ,

## Validation Data



Melatonin treatment improves human umbilical cord mesenchymal stem cell therapy in a mouse model of type II diabetes mellitus via the PI3K/AKT signaling pathway. Stem Cell Research & Therapy 2022 Dec;13 (1):1-15. Human, Mouse 1:1200 liver tissue hUC-MSC

## Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**TBC1D4 (Phospho Ser318) Rabbit pAb**

---

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)