

TBC1D4 (Phospho Ser588) Rabbit pAb

CatalogNo: YP1264

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

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 (Ser588)

Specificity This antibody detects endogenous levels of Human Mouse AS160 (phospho-Ser588)

Target Information

Gene name TBC1D4 AS160 KIAA0603

Protein Name AS160 (Ser588)

Organism	Gene ID	UniProt ID
Human	9882 ;	O60343 ;
Mouse	210789 ;	Q8BYJ6 ;

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

| 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



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