

## TBC1D4 / AS160 Antibody (C-Terminus) Rabbit Polyclonal Antibody

Catalog # ALS13580

# Specification

# TBC1D4 / AS160 Antibody (C-Terminus) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC <u>060343</u> Human Rabbit Polyclonal 147kDa KDa

## TBC1D4 / AS160 Antibody (C-Terminus) - Additional Information

Gene ID 9882

Other Names TBC1 domain family member 4, Akt substrate of 160 kDa, AS160, TBC1D4, AS160, KIAA0603

**Reconstitution & Storage** Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions** TBC1D4 / AS160 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

## TBC1D4 / AS160 Antibody (C-Terminus) - Protein Information

Name TBC1D4

Synonyms AS160, KIAA0603

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.

### **Cellular Location**

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

#### Tissue Location

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.

## TBC1D4 / AS160 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### TBC1D4 / AS160 Antibody (C-Terminus) - Images



Anti-TBC1D4 antibody IHC of human prostate.

### TBC1D4 / AS160 Antibody (C-Terminus) - Background

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.

### TBC1D4 / AS160 Antibody (C-Terminus) - References

Baus D.,et al.Cell. Signal. 20:2237-2246(2008). Ishibashi K.,et al.Genes Cells 14:41-52(2009). Nagase T.,et al.DNA Res. 5:31-39(1998). Ota T.,et al.Nat. Genet. 36:40-45(2004). Dunham A.,et al.Nature 428:522-528(2004).