

**TBC1D4 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8523a****Specification**

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**TBC1D4 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O60343](#)**TBC1D4 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9882**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8523a](/products/AP8523a) was selected from the N-term region of human TBC1D4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TBC1D4 Antibody (N-term) Blocking Peptide - 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 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TBC1D4 Antibody (N-term) Blocking Peptide - Images**

#### **TBC1D4 Antibody (N-term) Blocking Peptide - Background**

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#### **TBC1D4 Antibody (N-term) Blocking Peptide - References**

Lee,S.Y., et.al., Proc. Natl. Acad. Sci. U.S.A. 100 (5), 2651-2656 (2003) Nakayama,M., et.al., Genome Res. 12 (11), 1773-1784 (2002)