

**TBC1D4 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8523a****Specification**

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**TBC1D4 Antibody (N-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O60343</a>
Other Accession	<a href="#">Q8BYJ6</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	146563
Antigen Region	172-201

**TBC1D4 Antibody (N-term) - Additional Information****Gene ID** 9882**Other Names**

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

**Target/Specificity**

This TBC1D4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-201 amino acids from the N-terminal region of human TBC1D4.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TBC1D4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TBC1D4 Antibody (N-term) - 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**

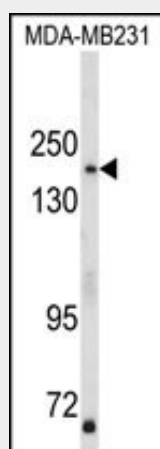
Widely expressed. Isoform 2 is the highest overexpressed in most tissues. Isoform 1 is highly expressed in skeletal muscle and heart, but was not detectable in the liver nor in adipose tissue. Isoform 2 is strongly expressed in adrenal and thyroid gland, and also in lung, kidney, colon, brain and adipose 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) - Protocols**

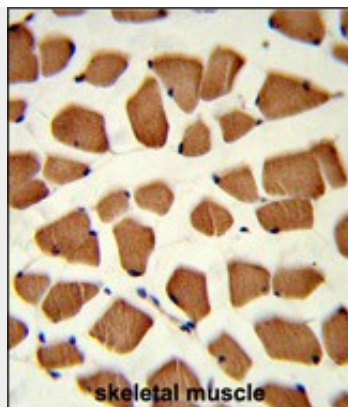
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

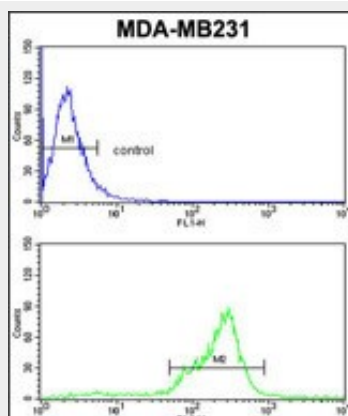
**TBC1D4 Antibody (N-term) - Images**



Western blot analysis of TBC1D4 Antibody (N-term) (Cat. #AP8523a) in MDA-MB231 cell line lysates (35ug/lane). TBC1D4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with TBC1D4 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TBC1D4 Antibody (N-term) (Cat. #AP8523a) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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

TBC1D4 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 Antibody (N-term) - 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)