

Goat Anti-AS160 / TBC1D4 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1117a**Specification**

Goat Anti-AS160 / TBC1D4 Antibody - Product Information

Application	WB, IHC
Primary Accession	O60343
Other Accession	NP_055647 , 9882
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	146563

Goat Anti-AS160 / TBC1D4 Antibody - Additional Information**Gene ID** 9882**Other Names**

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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-AS160 / TBC1D4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-AS160 / TBC1D4 Antibody - 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.

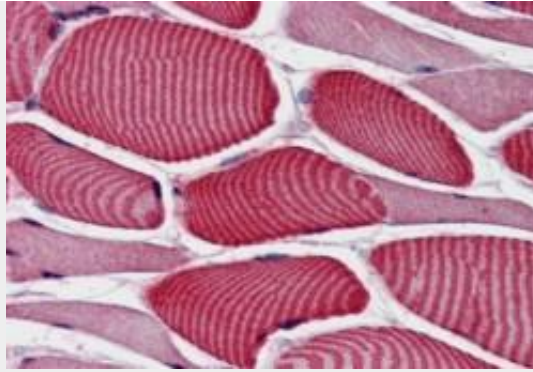
Goat Anti-AS160 / TBC1D4 Antibody - Protocols

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](#)

Goat Anti-AS160 / TBC1D4 Antibody - Images

AF1117a (0.1 µg/ml) staining of Daudi cell lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1117a (3.8 µg/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-AS160 / TBC1D4 Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle. Treebak JT, et al. Am J Physiol Cell Physiol, 2010 Feb. PMID 19923418.
A truncation mutation in TBC1D4 in a family with acanthosis nigricans and postprandial hyperinsulinemia. Dash S, et al. Proc Natl Acad Sci U S A, 2009 Jun 9. PMID 19470471.
Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. Treebak JT, et al. Diabetologia, 2009 May. PMID 19252894.
Identification and characterization of a novel Tre-2/Bub2/Cdc16 (TBC) protein that possesses Rab3A-GAP activity. Ishibashi K, et al. Genes Cells, 2009 Jan. PMID 19077034.