

Datasheet for ABIN5684096  
**anti-TBC1D4 antibody (AA 574-712)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	0.1 mg
Target:	TBC1D4
Binding Specificity:	AA 574-712
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Neutralization (Neut)

## Product Details

Immunogen:	Purified recombinant fragment of human TBC1D4 (AA: 574-712) expressed in E. coli.
Clone:	3H4A4
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	TBC1D4
Alternative Name:	TBC1D4 ( <a href="#">TBC1D4 Products</a> )
Background:	Description: This gene is a member of the Tre-2/BUB2/CDC16 domain family. The protein encoded by this gene is a Rab-GTPase-activating protein, and contains two phosphotyrosine-binding domains (PTB1 and PTB2), a calmodulin-binding domain (CBD), a Rab-GTPase domain,

## Target Details

and multiple AKT phosphomotifs. This protein is thought to play an important role in glucose homeostasis by regulating the insulin-dependent trafficking of the glucose transporter 4 (GLUT4), important for removing glucose from the bloodstream into skeletal muscle and fat tissues. Reduced expression of this gene results in an increase in GLUT4 levels at the plasma membrane, suggesting that this protein is important in intracellular retention of GLUT4 under basal conditions. When exposed to insulin, this protein is phosphorylated, dissociates from GLUT4 vesicles, resulting in increased GLUT4 at the cell surface, and enhanced glucose transport. Phosphorylation of this protein by AKT is required for proper translocation of GLUT4 to the cell surface. Individuals homozygous for a mutation in this gene are at higher risk for type 2 diabetes and have higher levels of circulating glucose and insulin levels after glucose ingestion. Alternative splicing results in multiple transcript variants encoding different isoforms. Aliases: AS160, NIDDM5

Molecular Weight:	146.5 kDa
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Gene ID:	9882
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HGNC:	23495
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## Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: N/A, FCM: 1:200 - 1:400, IHC: N/A
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
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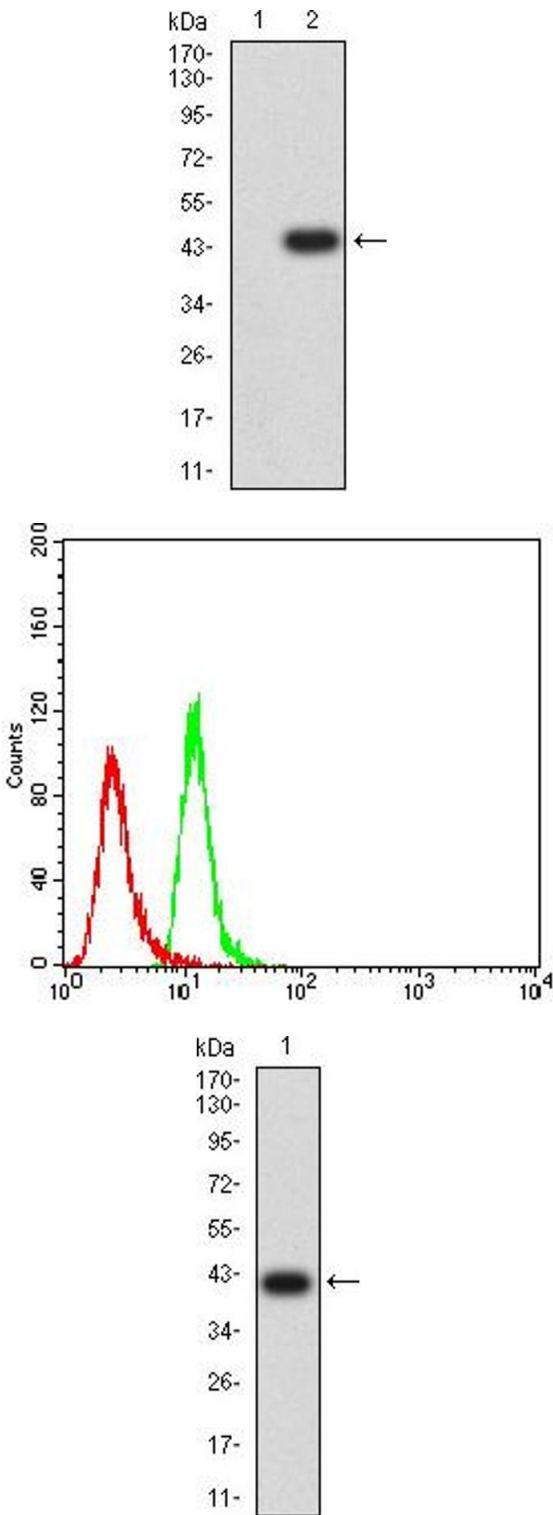
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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**Western Blotting**

**Image 1.** Western blot analysis using TBC1D4 mAb against HEK293 (1) and TBC1D4 (AA: 574-712)-hlgGFc transfected HEK293 (2) cell lysate.

**Flow Cytometry**

**Image 2.** Flow cytometric analysis of Hela cells using TBC1D4 mouse mAb (green) and negative control (red).

**Western Blotting**

**Image 3.** Western blot analysis using TBC1D4 mAb against human TBC1D4 (AA: 574-712) recombinant protein. (Expected MW is 41.2 kDa)

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5684096.