

Anti-Phospho-TBC1D4 (S318) Antibody

Catalog Number: P02004

About TBC1D4

AS160 (Akt substrate of 160 kDa), which was originally known as TBC1 domain family member 4 (TBC1D4), is a Rab GTPase-activating protein that in humans is encoded by the TBC1D4 gene. This gene is a member of the Tre-2/BUB2/CDC16 domain family. 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.

Overview

Product Name	Anti-Phospho-TBC1D4 (S318) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-TBC1D4 (S318) Antibody catalog # P02004. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O60343

Technical Details

Immunogen	A synthesized peptide derived from human AS160 around the phosphorylation site of Ser318.
Form	Liquid
Concentration	500 ug/ml

Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-200

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