

Recombinant

DGRmAb®

Phospho-AS160 (Thr642) (DGR32667) Rabbit mAb

db12649

Package : 10µL 20µL 50µL 100µL

Product Name : Phospho-AS160 (Thr642) (DGR32667) Rabbit mAb**Cat.No.:** db12649**Synonyms** : AS160; NIDDM5**Application** : WB**Reactivity** : Human**Host species** : Rabbit**Background**

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, 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. [provided by RefSeq, Aug 2015]

Immunogen

A synthetic phosphopeptide corresponding to residues surrounding Thr642 of human AS160

Gene ID

9882

Swiss Prot

O60343

Synonyms

AS160; NIDDM5

Reactivity

Human

Application

WB

Recommended dilution

WB: 1:1000-1:5000

Calculated MW

147 kDa

Observed MW

160 kDa

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|--------------------------|---|
| Host species | Rabbit |
| Clonality | Monoclonal |
| Clonality No. | DGR32667 |
| Isotype | IgG |
| Purity | Affinity Purification |
| Conjugation | Un-conjugated |
| Storage Stability | Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt. |