BACKGROUND
TBC1 domain family member 4 (TBC1D4), also designated AS160, can be insulin- and/or AKT1-induced. Insulin-stimulated phosphorylation is required for Glut4 translocation. TBC1D4 may play a role as a GTPase activating protein for proteins in the Rab family. It is expressed primarily in skeletal muscle and heart, as well as spleen, lymph node and leukocytes. Defects in TBC1D4 gene may cause atopic dermatitis (AD), sometimes referred to as eczema, an atopic chronic skin disease. The skin of affected individuals reacts to irritants or allergens and becomes red, flaky and itchy. The skin is also more vulnerable to inflammations, and symptoms can grow or disappear over time.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: TBC1D4 (human) mapping to 13q22.2; Tbc1d4 (mouse) mapping to E4.2.3.

SOURCE
TBC1D4 (H-48) is a rabbit polyclonal antibody raised against amino acids 879-926 mapping within an internal region of TBC1D4 of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
TBC1D4 (H-48) is recommended for detection of TBC1D4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TBC1D4 (H-48) is also recommended for detection of TBC1D4 in additional species, including equine, canine, bovine and porcine.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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CHROMOSOMAL LOCATION
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DATA

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.