

## TBC1D1 Antibody

Tested Species Reactivity	
Tested Applications	Dilution *
Western Blot (WB)	1-4 µg/ml

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
<b>Catalog Number:</b>	PA5-20389
<b>Size:</b>	100 ug
<b>Class:</b>	Polyclonal
<b>Type:</b>	Antibody
<b>Clone:</b>	
<b>Host / Isotype:</b>	Rabbit /
<b>Immunogen:</b>	a 22 amino acid peptide from near the carboxy terminus of human TBC1D1.

Form Information	
<b>Form:</b>	Liquid
<b>Concentration:</b>	1mg/ml
<b>Purification:</b>	Antigen affinity chromatography
<b>Storage Buffer:</b>	PBS
<b>Preservative:</b>	0.02% sodium azide
<b>Storage Conditions:</b>	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C

Product Specific Information	General Information
<p>A suggested positive control is Daudi cell lysate.</p> <p>PA5-20389 can be used with blocking peptide PEP-0506.</p> <p><i>For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.</i></p>	<p>TBC1D1 is the founding member of a family of proteins sharing a 180- to 200-amino acid TBC domain and presumed to have a role in regulating cell growth and differentiation. These proteins share significant homology with TRE2/USP6, yeast Bub2, and CDC16. TBC1D1 and TBC1D4 (AS160) have been demonstrated to be Rab GAPs (GTPase-activating proteins) that link upstream to Akt and phosphoinositide 3-kinase and downstream to Rabs involved in trafficking of GLUT4 vesicles. TBC1D1 regulates insulin-mediated GLUT4 translocation through its GAP activity, and is a likely Akt substrate. Mutations in the Tbc1d1 gene lead to some cases of severe human obesity.</p>

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