

Datasheet for ABIN1881909
anti-TSC1 antibody (pTyr297)



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Overview

Quantity:	400 µL
Target:	TSC1
Binding Specificity:	pTyr297
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This rat TSC1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y297 of rat TSC1.
Clone:	RB41272
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	TSC1
Alternative Name:	TSC1 (TSC1 Products)
Background:	In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated

Target Details

phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity). Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity).

Molecular Weight: 129022

NCBI Accession: [NP_068626](#)

UniProt: [Q9Z136](#)

Pathways: [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Cell Size](#), [Tube Formation](#)

Application Details

Application Notes: DB: 1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months

Publications

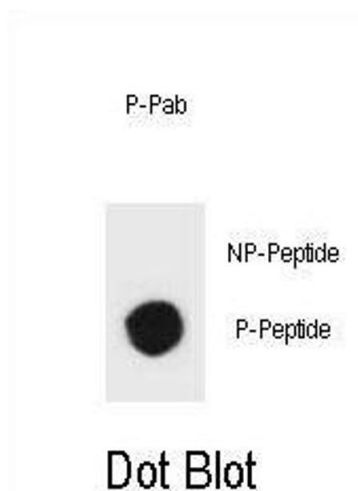
Product cited in: Inoue, Ndong, Suzuki, Kazami, Uyama, Kobayashi, Tadokoro, Yamamoto: "Hamartin-Hsp70 interaction is necessary for Akt-dependent tuberin phosphorylation during heat shock." in: **Bioscience, biotechnology, and biochemistry**, Vol. 73, Issue 11, pp. 2488-93, (2009) ([PubMed](#)).

Di Nardo, Kramvis, Cho, Sadowski, Meikle, Kwiatkowski, Sahin: "Tuberous sclerosis complex activity is required to control neuronal stress responses in an mTOR-dependent manner." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 29, Issue 18, pp. 5926-37, (2009) ([PubMed](#)).

Chen, Yan, Chen, He: "The variation of Akt/TSC1-TSC1/mTOR signal pathway in hepatocytes after partial hepatectomy in rats." in: **Experimental and molecular pathology**, Vol. 86, Issue 2, pp. 101-7, (2009) ([PubMed](#)).

Momose, Kobayashi, Tada, Itoyama, Hino: "N-terminal hamartin-binding and C-terminal GAP domain of tuberlin can separate in vivo." in: **Biochemical and biophysical research communications**, Vol. 356, Issue 3, pp. 693-8, (2007) ([PubMed](#)).

Images



Dot Blot

Image 1. Dot blot analysis of rat TSC1 Antibody (Phospho) Phospho-specific Pab (ABIN1881909 and ABIN2839943) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.