Datasheet for ABIN1881908

anti-TSC1 antibody (pThr417)

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Overview

Quantity:	400 µL
Target:	TSC1
Binding Specificity:	pThr417
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 T417 of rat TSC1.
Clone:	RB41269
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

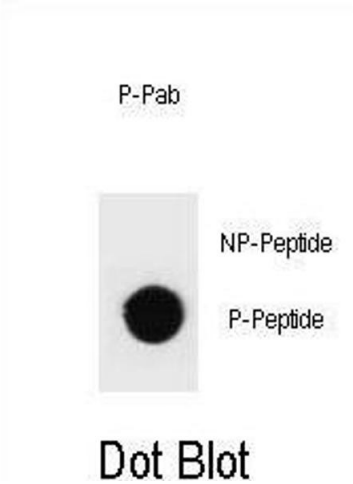
Product cited in:	Inoue, Ndong, Suzuki, Kazami, Uyama, Kobayashi, Tadokoro, Yamamoto: "Hamartin-Hsp70 interaction is necessary for Akt-dependent tuberin phosphorylation during heat shock." in: **Bioscience, biotechnology, and biochemistry**, Vol. 73, Issue 11, pp. 2488-93, (2009) (PubMed). Di Nardo,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

Publications

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 tuberin 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 (ABIN1881908 and ABIN2839942) 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.