

Datasheet for ABIN1881922
anti-TSC1 antibody (pThr416)



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Overview

Quantity:	400 µL
Target:	TSC1
Binding Specificity:	pThr416
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This mouse TSC1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T416 of mouse TSC1.
Clone:	RB42189
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)

Target Details

Background: In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated 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: 128746

NCBI Accession: [NP_075025](#)

UniProt: [Q9EP53](#)

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.

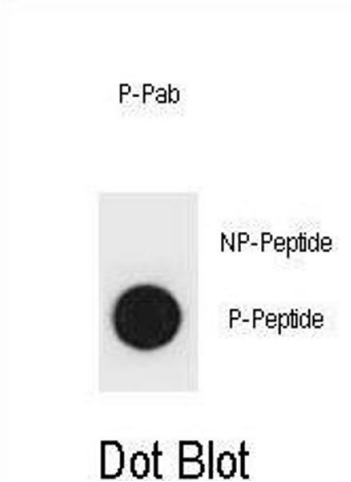
Storage: 4 °C, -20 °C

Expiry Date: 6 months

Publications

Product cited in: Akpa, Oyejola: "Modeling the transmission dynamics of HIV/AIDS epidemics: an introduction and a review." in: **Journal of infection in developing countries**, Vol. 4, Issue 10, pp. 597-608, (2010) ([PubMed](#)).

Kladney, Cardiff, Kwiatkowski, Chiang, Weber, Arbeit, Lu: "Tuberous sclerosis complex 1: an epithelial tumor suppressor essential to prevent spontaneous prostate cancer in aged mice." in: **Cancer research**, Vol. 70, Issue 21, pp. 8937-47, (2010) ([PubMed](#)).



Dot Blot

Image 1. Dot blot analysis of Mouse TSC1 Antibody (Phospho) Phospho-specific Pab (ABIN1881922 and ABIN2839978) 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.