

Datasheet for ABIN1881939  
**anti-Tuberin antibody (pSer1348)**



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1 Image

## Overview

|                      |                                        |
|----------------------|----------------------------------------|
| Quantity:            | 400 µL                                 |
| Target:              | Tuberin (TSC2)                         |
| Binding Specificity: | pSer1348                               |
| Reactivity:          | Mouse                                  |
| Host:                | Rabbit                                 |
| Clonality:           | Polyclonal                             |
| Conjugate:           | This Tuberin antibody is un-conjugated |
| Application:         | Dot Blot (DB)                          |

## Product Details

|                       |                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | This mouse TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S1348 of mouse TSC2. |
| Clone:                | RB41257                                                                                                                                                                           |
| Isotype:              | Ig Fraction                                                                                                                                                                       |
| Predicted Reactivity: | Rat                                                                                                                                                                               |
| Purification:         | This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                  |

## Target Details

|         |                |
|---------|----------------|
| Target: | Tuberin (TSC2) |
|---------|----------------|

## Target Details

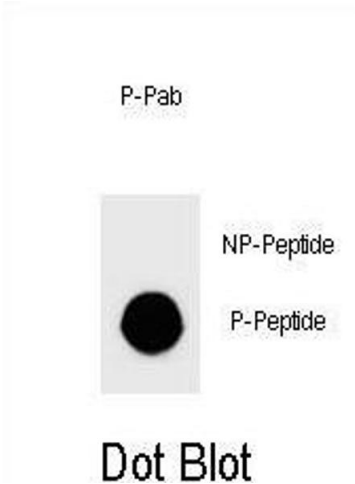
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | TSC2 ( <a href="#">TSC2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background:       | In complex with TSC1, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity). Specifically stimulates the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. Suggesting a possible mechanism for its role in regulating cellular growth (By similarity). |
| Molecular Weight: | 202071                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt:          | <a href="#">Q61037</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Pathways:         | <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Tube Formation</a> , <a href="#">Protein targeting to Nucleus</a>                                                                                                                                                                                                                                                                                                                    |

## 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                                                                                                               |



**Dot Blot**

**Image 1.** Dot blot analysis of mouse TSC2 Antibody (Phospho ) Phospho-specific Pab (ABIN1881939 and ABIN2839935) 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.