

## Product datasheet

# Anti-Tuberin (phospho S939) antibody ab59269

1 References 1 图像

### 概述

产品名称	Anti-Tuberin (phospho S939)抗体
描述	兔多克隆抗体to Tuberin (phospho S939)
特异性	ab59269 detects endogenous levels of Tuberin only when phosphorylated at serine 939.
经测试应用	适用于: IHC-P, ELISA
种属反应性	与反应: Human 预测可用于: Mouse, Rat
免疫原	A synthesized phosphopeptide derived from human Tuberin around the phosphorylation site of serine 939 (S-T-S <sup>P</sup> -L-N).
阳性对照	Human lung carcinoma tissue.

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
纯化说明	The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab59269** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.

应用	Ab评论	说明
ELISA		1/10000.

## 靶标

**功能** 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. Stimulates weakly the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 in vitro. Mutations in TSC2 lead to constitutive activation of RAP1A in tumors.

**组织特异性** Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.

**疾病相关** Defects in TSC2 are the cause of tuberous sclerosis type 2 (TSC2) [MIM:613254]. TSC2 is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. It is characterized by hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (developmental abnormalities of tissue combination). Clinical symptoms can range from benign hypopigmented macules of the skin to profound mental retardation with intractable seizures to premature death from a variety of disease-associated causes.

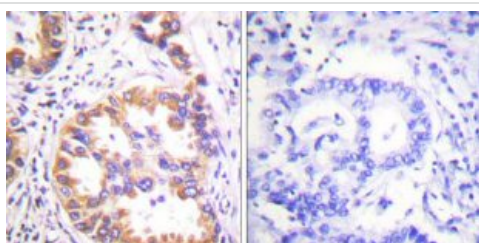
Defects in TSC2 are a cause of lymphangiomyomatosis (LAM) [MIM:606690]. LAM is a progressive and often fatal lung disease characterized by a diffuse proliferation of abnormal smooth muscle cells in the lungs. It affects almost exclusively young women and can occur as an isolated disorder or in association with tuberous sclerosis complex.

**序列相似性** Contains 1 Rap-GAP domain.

**翻译后修饰** Phosphorylation at Ser-1387, Ser-1418 or Ser-1420 does not affect interaction with TSC1. Phosphorylation at Ser-939 and Thr-1462 by PKB/AKT1 is induced by growth factor stimulation.

**细胞定位** Cytoplasm. Membrane. At steady state found in association with membranes.

## 图片



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using ab59269 at a dilution of 1/50. Left hand image - without immunising peptide; right hand image - with immunising peptide.

Immunohistochemistry (Paraffin-embedded sections)  
- Tuberin (phospho S939) antibody (ab59269)

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