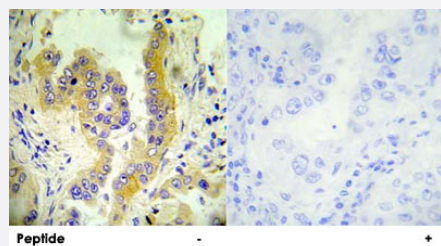


# TSC2 polyclonal antibody

Catalog # PAB16996      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using TSC2 polyclonal antibody (Cat # PAB16996).

## Specification

|                            |                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic peptide of TSC2.                                                                                      |
| <b>Immunogen</b>           | A synthetic peptide corresponding to residues surrounding T1462 of human TSC2.                                                                            |
| <b>Host</b>                | Rabbit                                                                                                                                                    |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                                                                                                         |
| <b>Specificity</b>         | This antibody detects endogenous levels of total TSC2 protein.                                                                                            |
| <b>Form</b>                | Liquid                                                                                                                                                    |
| <b>Recommend Usage</b>     | Western Blot (1:500-1:1000)<br>Immunohistochemistry (1:50-1:100)<br>ELISA (1:20000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)                                                                                                    |
| <b>Storage Instruction</b> | Store at 4°C for three months. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                   |

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using TSC2 polyclonal antibody (Cat # PAB16996).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — TSC2

|                    |                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">7249</a>                                                                                                                                                                                                                                                                                                                                                                 |
| Protein Accession# | <a href="#">P49815</a>                                                                                                                                                                                                                                                                                                                                                               |
| Gene Name          | TSC2                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Alias         | FLJ43106, LAM, TSC4                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Description   | tuberous sclerosis 2                                                                                                                                                                                                                                                                                                                                                                 |
| Omim ID            | <a href="#">191092</a> <a href="#">191100</a> <a href="#">606690</a>                                                                                                                                                                                                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                            |
| Gene Summary       | Mutations in this gene lead to tuberous sclerosis complex. Its gene product is believed to be a tumor suppressor and is able to stimulate specific GTPases. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq] |
| Other Designations | tuberin                                                                                                                                                                                                                                                                                                                                                                              |

## Publication Reference

- [Activity of TSC2 is inhibited by AKT-mediated phosphorylation and membrane partitioning.](#)

Cai SL, Tee AR, Short JD, Bergeron JM, Kim J, Shen J, Guo R, Johnson CL, Kiguchi K, Walker CL.

Journal of Cellular Biology 2006 Apr; 173(2):279.

- [Tumor-promoting phorbol esters and activated Ras inactivate the tuberous sclerosis tumor suppressor complex via p90 ribosomal S6 kinase.](#)

Roux PP, Ballif BA, Anjum R, Gygi SP, Blenis J.

PNAS 2004 Sep; 101(37):13489.

- [The p38 and MK2 kinase cascade phosphorylates tuberin, the tuberous sclerosis 2 gene product, and enhances its interaction with 14-3-3.](#)

Li Y, Inoki K, Vacratsis P, Guan KL.

The Journal of Biological Chemistry 2003 Feb; 278(16):13663.

## Pathway

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [p53 signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Colonic Neoplasms](#)
- [Cysts](#)
- [Depressive Disorder](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)

- [Malformations of Cortical Development](#)
- [Mental Disorders](#)
- [NARP](#)
- [Pigmentation Disorders](#)
- [Rectal Neoplasms](#)
- [Tuberous sclerosis](#)
- [Urinary Bladder Neoplasms](#)