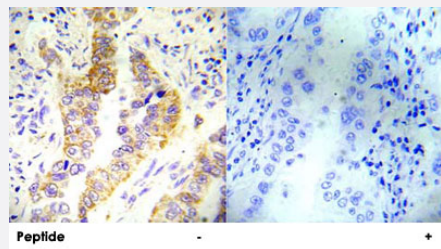


TSC2 polyclonal antibody

Catalog # PAB16994 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 # PAB16994).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TSC2.
Immunogen	A synthetic peptide corresponding to residues surrounding S1254 of human TSC2.
Host	Rabbit
Reactivity	Human
Specificity	This antibody detects endogenous levels of total TSC2 protein.
Form	Liquid
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. 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 # PAB16994).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — TSC2

Entrez GeneID [7249](#)

Protein Accession# [P49815](#)

Gene Name TSC2

Gene Alias FLJ43106, LAM, TSC4

Gene Description tuberous sclerosis 2

Omim ID [191092](#) [191100](#) [606690](#)

Gene Ontology [Hyperlink](#)

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](#)