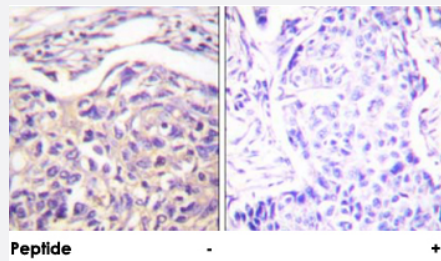


TSC2 polyclonal antibody

Catalog # PAB18231 Size 100 ug

Applications



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using TSC2 polyclonal antibody (Cat # PAB18231).

Peptide "+" means "peptide blocking".

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of TSC2.

Immunogen A synthetic peptide corresponding to human TSC2.

Host Rabbit

Reactivity Human, Mouse, Rat

Specificity This antibody is specific to TSC2.

Form Liquid

Purification Affinity purification

Concentration 1 mg/mL

Recommend Usage Immunohistochemistry (1:50-1:100)
ELISA (1:5000)
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

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

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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using TSC2 polyclonal antibody (Cat # PAB18231).

Peptide "+" means "peptide blocking".

- 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

- [Estrogen-induced smooth muscle cell growth is regulated by tuberin and associated with altered activation of platelet-derived growth factor receptor-beta and ERK-1/2.](#)

Finlay GA, York B, Karas RH, Fanburg BL, Zhang H, Kwiatkowski DJ, Noonan DJ.

The Journal of Biological Chemistry 2004 May; 279(22):23114.

Application: WB, Human, HEK 293 cells

- [Tuberin phosphorylation regulates its interaction with hamartin. Two proteins involved in tuberous sclerosis.](#)

Aicher LD, Campbell JS, Yeung RS.

The Journal of Biological Chemistry 2001 Jun; 276(24):21017.

Application: IP, WB-Ce, WB-Tr, Human, Mouse, Rat, COS-1, HeLa, LEF8, NIH/3T3 cells, Rat-derived embryonic fibroblasts

- [Similarities and differences in the subcellular localization of hamartin and tuberin in the kidney.](#)

Murthy V, Haddad LA, Smith N, Pinney D, Tyszkowski R, Brown D, Ramesh V.

American Journal of Physiology. Renal Physiology 2000 May; 278(5):F737.

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](#)