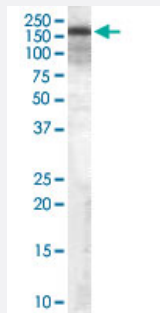


TSC1 polyclonal antibody

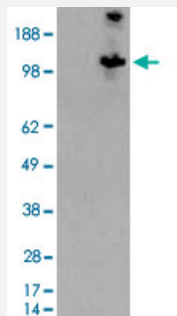
Catalog # PAB7016 Size 100 ug

Applications



Western Blot (Tissue lysate)

TSC1 polyclonal antibody (Cat # PAB7016) (0.1 ug/mL) staining of human brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

HEK293 overexpressing human TSC1 and probed with TSC1 polyclonal antibody (Cat # PAB7016) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of TSC1.
Immunogen	A synthetic peptide corresponding to human TSC1.
Sequence	C-QLHIMDYNETHHEH
Host	Goat
Theoretical MW (kDa)	130
Reactivity	Human
Specificity	This antibody is expected to recognize isoform 1 (NP_00.0359.1) only.

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:128000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 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

- Western Blot (Tissue lysate)

TSC1 polyclonal antibody (Cat # PAB7016) (0.1 ug/mL) staining of human brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

HEK293 overexpressing human TSC1 and probed with TSC1 polyclonal antibody (Cat # PAB7016) (mock transfection in first lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — TSC1

Entrez GeneID	7248
Protein Accession#	NP_00.0359.1
Gene Name	TSC1
Gene Alias	KIAA0243, LAM, MGC86987, TSC
Gene Description	tuberous sclerosis 1
Omim ID	191100 605284 606690 607341

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a growth inhibitory protein thought to play a role in the stabilization of tuberin. Mutations in this gene have been associated with tuberous sclerosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq]

Other Designations

OTTHUMP00000022439|hamartin|tuberous sclerosis 1 protein|tumor suppressor

Publication Reference

- [Pathogenesis of tuberous sclerosis subependymal giant cell astrocytomas: biallelic inactivation of TSC1 or TSC2 leads to mTOR activation.](#)

Chan JA, Zhang H, Roberts PS, Jozwiak S, Wieslawa G, Lewin-Kowalik J, Kotulska K, Kwiatkowski DJ.

Journal of Neuropathology and Experimental Neurology 2004 Dec; 63(12):1236.

Pathway

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

Disease

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Colonic Neoplasms](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hypertension](#)
- [Malformations of Cortical Development](#)

- [NARP](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Rectal Neoplasms](#)
- [Tuberous sclerosis](#)