

Datasheet for ABIN3043497  
**anti-TSC1 antibody (AA 686-884)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µg
Target:	TSC1
Binding Specificity:	AA 686-884
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hamartin(TSC1) detection. Tested with WB in Human,Rat.
Immunogen:	E.coli-derived human Hamartin recombinant protein (Position: D686-Y884). Human Hamartin shares 96% and 95% amino acid (aa) sequences identity with mouse and rat Hamartin, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hamartin(TSC1) detection. Tested with WB in Human,Rat. Gene Name: tuberous sclerosis 1 Protein Name: Hamartin
Purification:	Immunogen affinity purified.

## Target Details

Target:	TSC1
Alternative Name:	TSC1 ( <a href="#">TSC1 Products</a> )
Background:	<p>Hamartin also known as tuberous sclerosis 1 is a protein that in humans is encoded by the TSC1 gene. It is mapped to 9q34.13. This peripheral membrane protein was implicated as a tumor suppressor. It forms a complex with TSC2 that regulates mTORC1 signaling and may be also involved in vesicular transport and docking. Hamartin and TSC2 have critical roles in neuronal polarity, and that a common pathway regulates polarization and growth in neurons and cell size in other tissues. Hamartin is a growth inhibitory protein whose biologic effect is probably dependent on its interaction with tuberin. It also can affect cell proliferation via deregulation of G1 phase. Loss or perturbation of Hamartin function leads to loss of adhesion to the cellular matrix and initiates the development of TSC hamartomas.</p> <p>Synonyms: Hamartin antibody kiaa0243 antibody LAM antibody TSC antibody TSC1 antibody Tsc1 gene antibody TSC1_HUMAN antibody Tuberous sclerosis 1 antibody Tuberous sclerosis 1 protein antibody</p>
Gene ID:	7248
UniProt:	<a href="#">Q92574</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Tube Formation</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Hamartin is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

## Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



### Western Blotting

**Image 1.** Anti-Hamartin Picoband antibody, All lanes: Anti Hamartin at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Hela Whole Cell Lysate at 40ug Predicted bind size: 130KD Observed bind size: 130KD

### Western Blotting

**Image 2.** Anti-Hamartin Picoband antibody, All lanes: Anti Hamartin at 0.5ug/ml WB: Recombinant Human Hamartin Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD