

Datasheet for ABIN704846
anti-TSC1 antibody (AA 131-230)[Go to Product page](#)

1 Publication

Overview

Quantity:	100 µL
Target:	TSC1
Binding Specificity:	AA 131-230
Reactivity:	Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Hamartin
Isotype:	IgG
Cross-Reactivity:	Sheep
Predicted Reactivity:	Human,Mouse,Rat,Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	TSC1
Alternative Name:	Hamartin/TSC1 (TSC1 Products)
Background:	Synonyms: LAM, TSC1, Tuberous sclerosis 1 protein, TSC1_HUMAN.

Target Details

Background: Hamartin, or TSC1, is a suspected tumor suppressor implicated in the disease tuberous sclerosis 1. It is a negative regulator of cell division controlling the transition from G0/G1 to S phase, and it seems to act through the phosphatidylinositol 3 kinase/Akt pathway. TSC1 interacts with tuberin m(TSC2), which is thought to be a GAP (GTPase Activating Protein) for the Rap1 and Rab5 small G Proteins. The Hamartin/Tuberin complex has been shown to inhibit mTor. Hamartin has also been shown to interact with ERM (Ezrin-Radixin-Moesin) proteins and with F-actin, suggesting a role for TSC proteins in modulation of cell adhesion and morphology.

Gene ID: 7248

UniProt: [Q92574](#)

Pathways: [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Cell Size](#), [Tube Formation](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Cao, Wei, Liu, Wang, Wu, Xie, Capellini, Zhang, Zhao, Li, Zhong, Wang, Lu, Liu, Zhang, Du, Zhang, Du: "DNA methylation Landscape of body size variation in sheep." in: **Scientific reports**, Vol. 5,

pp. 13950, (2016) ([PubMed](#)).