



# Anti-TSC1 (aa 1150-1163) polyclonal antibody (DPABH-02292)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Seems not to be required for TSC2 GAP activity towards RHEB. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling.
<b>Immunogen</b>	Synthetic peptide: QLHIMDYNETHHEH by a Cysteine residue linker, corresponding to C terminal amino acids 1150-1163 of Human Hamartin.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein G purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB, IHC-P
<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	pH: 7.30; Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

# GENE INFORMATION

Gene Name	<a href="#">TSC1 tuberous sclerosis 2 [ Homo sapiens ]</a>
Official Symbol	TSC1
Synonyms	TSC1; tuberous sclerosis 1; LAM; TSC; hamartin; tumor suppressor; tuberous sclerosis 1 protein;
Entrez Gene ID	<a href="#">7248</a>
Protein Refseq	<a href="#">NP_000359.1</a>
UniProt ID	<a href="#">Q86WV8</a>
Pathway	AMPK signaling; IGF1R signaling cascade; IRS-related events; Inhibition of TSC complex formation by PKB
Function	GTPase activating protein binding; GTPase regulator activity; chaperone binding; protein N-terminus binding