



# Tuberin (phospho Tyr1571) Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-00244
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	TSC2
<b>Protein Name</b>	Tuberin
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TSC2 around the phosphorylation site of Tyr1571. AA range:1537-1586
<b>Specificity</b>	Phospho-Tuberin (Y1571) Polyclonal Antibody detects endogenous levels of Tuberin protein only when phosphorylated at Y1571.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	TSC2; TSC4; Tuberin; Tuberous sclerosis 2 protein
<b>Observed Band</b>	170kD
<b>Cell Pathway</b>	Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in association with membranes.
<b>Tissue Specificity</b>	Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.
<b>Function</b>	alternative products:Additional isoforms seem to exist. Experimental confirmation may be lacking for some isoforms,disease:Defects in TSC2 are a cause of lymphangioleiomyomatosis (LAM) [MIM:606690]. LAM is a progressive and often fatal lung disease characterized by a diffuse proliferation of abnormal smooth muscle cells in the lungs. It affects almost exclusively young women and can occur as an isolated disorder or in association with tuberous sclerosis complex.,disease:Defects in TSC2 are the cause of tuberous sclerosis complex (TSC) [MIM:191100]. The molecular basis of TSC is a functional impairment of the tuberin-hamartin complex. TSC is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. TSC is characterized by hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (de
<b>Background</b>	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, Jul 2008],

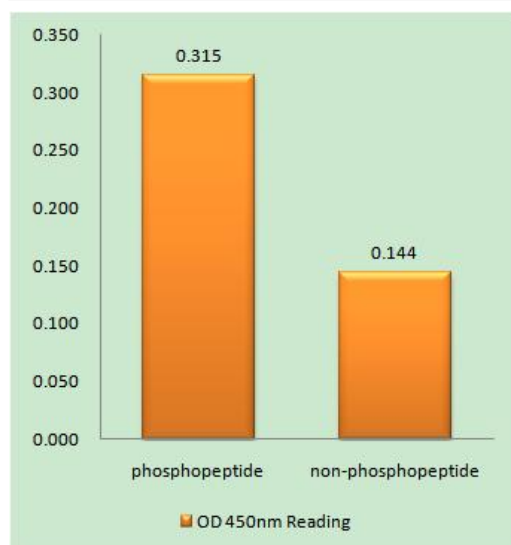
#### matters needing attention

Avoid repeated freezing and thawing!

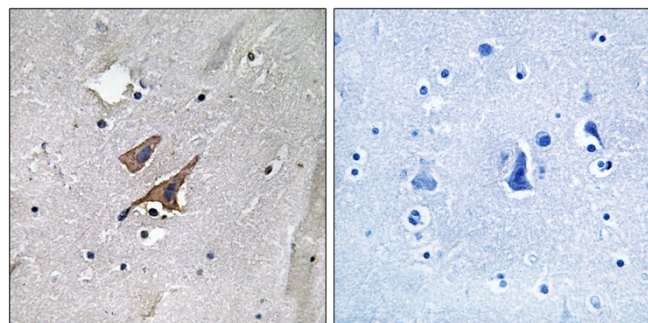
#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

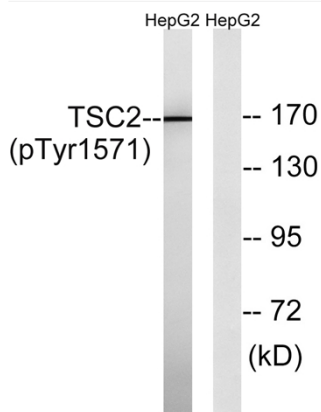
### Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using TSC2 (Phospho-Tyr1571) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using TSC2 (Phospho-Tyr1571) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of TSC2 (Phospho-Tyr1571) Antibody. The lane on the right is blocked with the TSC2 (Phospho-Tyr1571) peptide.