



# Tuberin (phospho Tyr1571) Monoclonal Antibody

<b>Catalog No</b>	BYmab-00244
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<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) Monoclonal 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>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<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

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hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (de

**Background**

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