

**Tuberin/TSC2 (Phospho Ser1387) rabbit pAb**

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| <b>Catalog No :</b>          | YP1539  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB  |
| <b>Target :</b>              | Tuberin   |
| <b>Fields :</b>              | >>Phospholipase D signaling pathway;>>p53 signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Cellular senescence;>>Thermogenesis;>>Insulin signaling pathway;>>Thyroid hormone signaling pathway;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Herpes simplex virus 1 infection;>>Choline metabolism in cancer |
| <b>Gene Name :</b>           | TSC2 TSC4   |
| <b>Protein Name :</b>        | Tuberin/TSC2 (Ser1387)  |
| <b>Human Gene Id :</b>       | 7249  |
| <b>Human Swiss Prot No :</b> | P49815  |
| <b>Mouse Swiss Prot No :</b> | Q61037  |
| <b>Rat Gene Id :</b>         | 24855   |
| <b>Rat Swiss Prot No :</b>   | P49816  |
| <b>Immunogen :</b>           | Synthesized phospho peptide around human Tuberin (Ser1387)  |
| <b>Specificity :</b>         | This antibody detects endogenous levels of Human Mouse Rat Tuberin/TSC2 (phospho-Ser1387)   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |

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| <b>Dilution :</b>             | WB 1:1000-2000   |
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Observed Band :</b>        | 200kD  |
| <b>Cell Pathway :</b>         | Insulin Receptor; mTOR; B Cell Receptor; PI3K/Akt; AMPK  |
| <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],  |
| <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>Subcellular Location :</b> | Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in association with membranes.   |
| <b>Expression :</b>           | Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.   |
| <b>Sort :</b>                 | 23727  |
| <b>No4 :</b>                  | 1  |
| <b>Host :</b>                 | Rabbit   |
| <b>Modifications :</b>        | Phospho  |

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