



Tuberin (phospho Thr1462) Monoclonal Antibody

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|---------------------------|---|
| Catalog No | BYmab-00224 |
| Isotype | IgG |
| Reactivity | Human;Mouse;Rat |
| Applications | WB |
| Gene Name | TSC2 |
| Protein Name | Tuberin |
| Immunogen | The antiserum was produced against synthesized peptide derived from human Tuberin/TSC2 around the phosphorylation site of Thr1462. AA range:1428-1477 |
| Specificity | Phospho-Tuberin (T1462) Monoclonal Antibody detects endogenous levels of Tuberin protein only when phosphorylated at T1462. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source | Monoclonal, Mouse,IgG |
| Purification | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| Dilution | WB 1:500-2000 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | TSC2; TSC4; Tuberin; Tuberous sclerosis 2 protein |
| Observed Band | 200kD |
| Cell Pathway | Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in association with membranes. |
| Tissue Specificity | Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta. |
| Function | 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

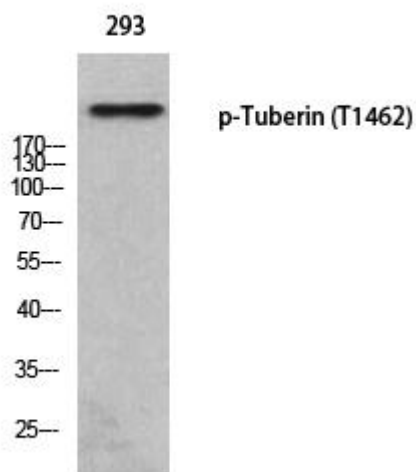
Avoid repeated freezing and thawing!

Usage suggestions

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

Products Images

Western Blot analysis of various cells using Tuberin (phospho Thr1462) Monoclonal Antibody



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