bs-3837R **[Primary Antibody]**

TSC1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7248 **SWISS:** Q92574

Target: TSC1

Immunogen: KLH conjugated synthetic peptide derived from human Hamartin: 131-230/1164.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Tuberous sclerosis complex (TSC) is an autosomal dominant genetic disorder characterized by mental retardation and the widespread development of distinctive tumors termed hamartomas. Two different genetic loci have been linked to TSC; one of these loci, the tuberous sclerosis-2 gene (TSC2), encodes a protein called tuberin and the other loci, tuberous sclerosis-1 gene (TSC1), encodes a protein called hamartin. Tuberin and hamartin interact with each other forming a cystoplasmic complex. Hamartin interacts with the ezrin-radixin-moesin (ERM) family of actin-binding proteins and inhibition of hamartin activity results in loss of cell adhesion. Hamartin is present in most adult tissues with strong expression in brain, heart, and kidney.

Applications: **ELISA** (1:5000-10000)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Dog, Horse)

Predicted MW.: 130 kDa

Subcellular Location: Cell membrane ,Cytoplasm

SELECTED CITATIONS

- **[IF=4.8]** Cao, Jiaxue, et al. "DNA methylation Landscape of body size variation in sheep." Scientific reports 5 (2015). WB ;Sheep. 26472088
- **[IF=3.14]** Wang, Yuanyuan, et al. "Repression of TSC1/TSC2 mediated by MeCP2 regulates human embryo lung fibroblast cell differentiation and proliferation." International Journal of Biological Macromolecules (2016). IHC ;Mouse. 28041914