

## Anti-Hamartin/TSC1 Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PB9120-Fluoro594

### About TSC1

Hamartin also known as tuberous sclerosis 1 is a protein that in humans is encoded by the TSC1 gene. It is mapped to 9q34.13. This peripheral membrane protein was implicated as a tumor suppressor. It forms a complex with TSC2 that regulates mTORC1 signaling and may be also involved in vesicular transport and docking. Hamartin and TSC2 have critical roles in neuronal polarity, and that a common pathway regulates polarization and growth in neurons and cell size in other tissues. Hamartin is a growth inhibitory protein whose biologic effect is probably dependent on its interaction with tuberin. It also can affect cell proliferation via deregulation of G1 phase. Loss or perturbation of Hamartin function leads to loss of adhesion to the cellular matrix and initiates the development of TSC hamartomas.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Hamartin/TSC1 Antibody Picoband® Fluoro594 Conjugated   |
| Reactive Species     | Human, Rat   |
| Application          | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Rabbit   |
| Uniprot ID           | Q92574   |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | E.coli-derived human Hamartin recombinant protein (Position: D686-Y884). Human Hamartin shares 96% and 95% amino acid (aa) sequences identity with mouse and rat Hamartin, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins  |
| Isotype          | Rabbit IgG   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | Fluoro594<br>Excitation Wavelength: 593 nm<br>Emission Wavelength: 618 nm  |

Suggested Dilutions

Optimal dilutions should be determined by end users.

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Anti-Hamartin/TSC1 Antibody - Fluoro594

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