

## **Product Data Sheet**

## Purified anti-TSC2 Phospho (Ser664)

| Catalog # / Size: | 635901 / 25 μl<br>635902 / 100 μl   |  |  |  |  |
|-------------------|---|--|--|--|--|
| Clone:            | Poly6359  |  |  |  |  |
| Isotype:          | Rabbit Polyclonal   |  |  |  |  |
| Immunogen:        | Modified peptide  |  |  |  |  |
| Reactivity:       | Human   |  |  |  |  |
| Preparation:      | The antibody was purified by affinity chromatography.   |  |  |  |  |
| Formulation:      | This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. |  |  |  |  |
| Charaman          | Lines receipt store frames at 20%   |  |  |  |  |

## Storage: Upon receipt, store frozen at -20°C.

## **Applications:**

| Applications:           | IF - Quality tested<br>IHC - Validated  |  |  |   |  |  |
|-------------------------|---|--|--|---|--|--|
| Recommended Usage:      | Each lot of this antibody is quality control staining. For immunofluorescence micros 1:100~1:400. It is recommended that the 1:50 dilution of antibody for staining. Antiparaffin-embedded tissue using 0.01 M s recommended.   | tested by immunoflu-<br>copy: Use a dilution i<br>reagent be titrated. F<br>gen retrieval for IHC o<br>odium citrate buffer is   | orescence<br>range of<br>for IHC, use a<br>of formalin-fixed |   |  |  |
| Application Notes:      | The Poly6359 antibody recognizes huma been shown to be useful for immunofluor not detect TSC2 phosphorylated at other   | n phospho-TSC2 (Se<br>escent staining. This<br>sites.  | r664) and has antibody does                                  | Untreated Hela cells (Panel A), or<br>overnight nocodazole treated Hela<br>cells (Panel B) stained with purified<br>rabbit polyclonal antibody Poly6359 |  |  |
| Application References: | 1. Bartolome A, <i>et al.</i> 2010. <i>Endocrinolo</i><br>2. Miyazaki M, <i>et al.</i> 2011. <i>J Physiol</i> . 58  | <i>gy.</i> PubMed<br>39:1831. PubMed.  |  |   |  |  |
| Description:            | Tuberous sclerosis complex (TSC) is an a disorder that is caused by mutation in eith (tuberin) gene. TSC1 and TSC2 proteins heterodimer in vivo thatinhibits ribosomal activates eukaryotic initiation factor 4E-bi inhibition of the mammalian target of rapa small GTPase protein of the Ras superfa Predicted molecular weight 201 kD. Ser6 TSC1-TSC2 dissociation and markedly in signaling, cell proliferation, and oncogeni signal-regulated kinase) may contribute to TSC2 at specific residues, particularly Se | autosomal dominant genetic<br>her the TSC1 (hamartin) or TSC2<br>form a physical and functional<br>I protein S6 kinase 1 (S6K1) and<br>indingprotein 1 (4E-BP1) by<br>amycin (mTOR). TSC2 belongs to<br>umily, contain a Rap-GAP domain.<br>S64 TSC2 phosphorylation leads to<br>mpairs TSC2 ability to inhibit mTOR<br>ic transformation. Erk (extracellular<br>to tumorigenesis by phosphorylating<br>564. |  | against phospho-TSC2 (Ser664),<br>followed by Cy3-conjugated Donkey<br>anti-rabbit IgG and DAPI.  |  |  |
| Antigen References:     | 1. Inoki K, et al. 2002. Nat. Cell Biol. 4:64   | 8  |  | Server Server   |  |  |
| Related Products        | : <b>Product</b><br>Cv3 Donkey anti-rabbit IgG (minimal   | <b>Clone</b><br>Polv4064   | Application  |   |  |  |





Magnification, 40X.



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.