



# TSC2 blocking peptide (CDBP6376)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Antigen Description</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>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | Used as a blocking peptide in immunoblotting applications.   |
| <b>Format</b>              | Liquid   |
| <b>Concentration</b>       | 200 µg/mL  |
| <b>Size</b>                | 0.05 mg  |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | -20°C  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">TSC2 tuberous sclerosis 2 [ Homo sapiens (human) ]</a>  |
| <b>Official Symbol</b> | TSC2  |
| <b>Synonyms</b>        | TSC2; tuberous sclerosis 2; LAM; TSC4; PPP1R160; tuberin; tuberous sclerosis 2 protein; protein phosphatase 1, regulatory subunit 160 |
| <b>Entrez Gene ID</b>  | <a href="#">7249</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_000548</a>   |

|                       |   |
|-----------------------|---|
| <b>Protein Refseq</b> | <a href="#">NP_000539</a>   |
| <b>UniProt ID</b>     | P49815  |
| <b>Pathway</b>        | AKT phosphorylates targets in the cytosol; AMPK signaling; AMPK signaling pathway; Adaptive Immune System; BDNF signaling pathway; Constitutive PI3K/AKT Signaling in Cancer; DAP12 interactions; DAP12 signaling |
| <b>Function</b>       | 14-3-3 protein binding; GTPase activator activity; phosphatase binding; protein binding; protein heterodimerization activity; protein homodimerization activity   |