

## Rabbit Hamartin Polyclonal Antibody | anti-TSC1 antibody

Anti-Hamartin antibody

|                              |                       |                                                                                  |                                                           |
|------------------------------|-----------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA45371</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Reacts with : Human, Rat<br/>Predicted to work with : Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|-----------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------|

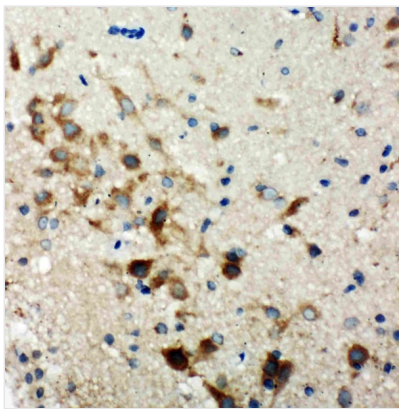
### PRODUCT SYNONYMS

Hamartin; Polyclonal Antibody; Anti-Hamartin antibody; tuberous sclerosis 1; Hamartin antibody; kiaa0243 antibody; LAM antibody; TSC antibody; TSC1 antibody; Tsc1 gene antibody; TSC1\_HUMAN antibody; Tuberous sclerosis 1 antibody; Tuberous sclerosis 1 protein antibody; anti-TSC1 antibody

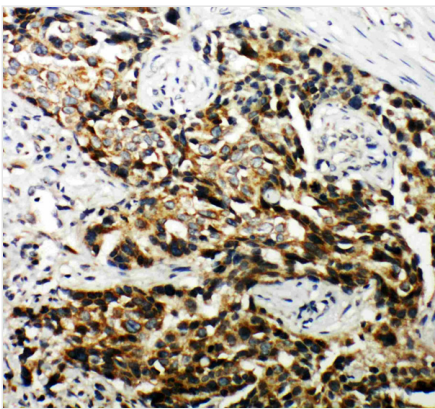
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                      |
| Reactivity                                     | Reacts with : Human, Rat<br>Predicted to work with : Mouse                                                                                                                                  |
| Clonality                                      | Polyclonal                                                                                                                                                                                  |
| Isotype                                        | IgG                                                                                                                                                                                         |
| Specificity                                    | No cross reactivity with other proteins.                                                                                                                                                    |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                |
| Form/Format                                    | Lyophilized                                                                                                                                                                                 |
| Sequence Length                                | 1164                                                                                                                                                                                        |
| Applicable Applications for anti-TSC1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                               |
| Immunogen                                      | A synthetic peptide corresponding to a sequence at the C-terminus of human Hamartin, identical to the related rat sequence, and different from the related mouse sequence by one amino acid |
| Contents                                       | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                               |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                        |
| Recommended Detection Systems                  | We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (please inquire) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (please inquire) for IHC(P).   |
| Preparation and Storage                        | At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.             |

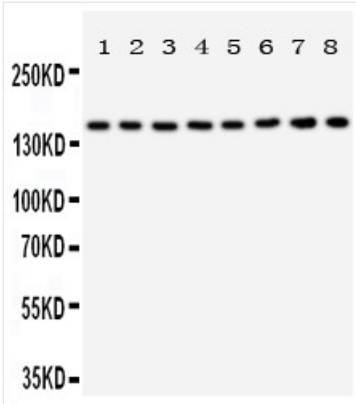
IMAGES



IHC (Immunohistochemistry)  
Anti-Hamartin antibody, AAA45371, IHC(P)IHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)  
Anti-Hamartin antibody, AAA45371, IHC(P)IHC(P): Human Mammary Cancer Tissue



WB (Western Blot)  
Anti-Hamartin antibody, AAA45371, Western blottingAll lanes: Anti Hamartin (AAA45371) at 0.5ug/mL  
Lane 1: Rat Skeletal Muscle Tissue Lysate at 50ug  
Lane 2: Rat Heart Tissue Lysate at 50ug  
Lane 3: Rat Brain Tissue Lysate at 50ug  
Lane 4: Rat Lung Tissue Lysate at 50ug  
Lane 5: 293T Whole Cell Lysate at 40ug  
Lane 6: HELA Whole Cell Lysate at 40ug  
Lane 7: HT1080 Whole Cell Lysate at 40ug  
Lane 8: SMMC Whole Cell Lysate at 40ug  
Predicted bind size: 130KD  
Observed bind size: 160KD

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TSC1 antibody | <b>Background:</b> TSC1(Tuberous Sclerosis 1), also called HAMARTIN or TSC, is a human protein and gene. As part of a comprehensive strategy to identify the gene mutant in tuberous sclerosis-1, van Slegtenhorst et al.(1997) developed an overlapping contig of clones from the 1.4-Mb TSC1 region on chromosome 9. Benvenuto et al.(2000) showed that overexpression of the TSC1 gene in rat fibroblasts inhibits growth and causes changes in cell morphology. Van Slegtenhorst et al.(1998) showed that hamartin and tuberin associate physically in vivo, however, and that the interaction is mediated by predicted coiled-coil domains. |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 9297077                |
| NCBI GeneID                      | 7248                   |
| UniProt Accession #              | Q92574; Q5VVN5; B7Z897 |
| Molecular Weight                 | 124,015 Da             |
| NCBI Official Full Name          | Hamartin               |
| NCBI Official Synonym Full Names | tuberous sclerosis 1   |
| NCBI Official Symbol             | TSC1                   |

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| NCBI Official Synonym Symbols | LAM; TSC                                                 |
| NCBI Protein Information      | hamartin; tumor suppressor; tuberous sclerosis 1 protein |
| UniProt Protein Name          | Hamartin                                                 |
| UniProt Gene Name             | <b>TSC1</b>                                              |
| UniProt Synonym Gene Names    | KIAA0243; TSC                                            |
| UniProt Entry Name            | TSC1_HUMAN                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hamartin-antibody-immunohistochemistry-western-blot-elisa/45371>