Product datasheet

Anti-Hamartin/TSC1 Antibody

Catalog Number: *BA2879*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
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Basic Information

Product Name	Anti-Hamartin/TSC1 Antibody
Gene Name	TSC1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	150 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

Reference

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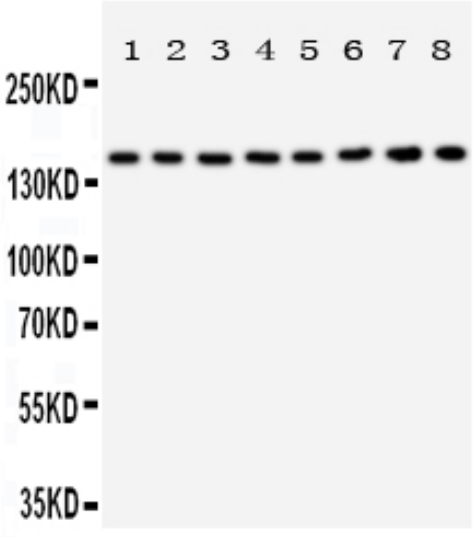
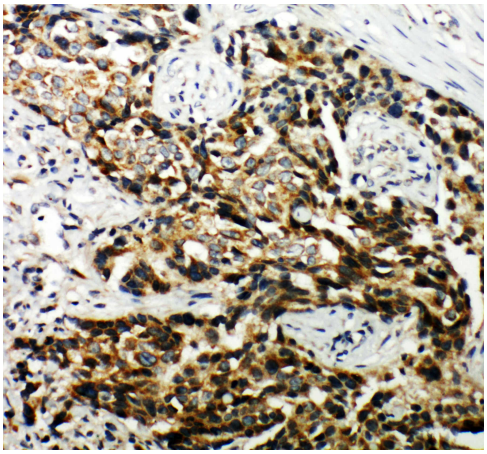
Anti-Hamartin/TSC1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of Hamartin/TSC1 using anti-Hamartin/TSC1 antibody (BA2879). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat skeletal muscle tissue lysates,
Lane 2: Rat heart tissue lysates,
Lane 3: Rat brain tissue lysates,
Lane 4: Rat lung tissue lysates,
Lane 5: 293T whole cell lysates,
Lane 6: HELA whole cell lysates,
Lane 7: HT1080 whole cell lysates,
Lane 8: SMMC whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Hamartin/TSC1 antigen affinity purified polyclonal antibody (BA2879) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Hamartin/TSC1 at approximately 150 kDa. The expected band size for Hamartin/TSC1 is at 130 kDa.



IHC analysis of Hamartin/TSC1 using anti-Hamartin/TSC1 antibody (BA2879).
Hamartin/TSC1 was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Hamartin/TSC1 Antibody (BA2879) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.