

Anti-Hamartin/TSC1 Antibody Picoband®

Catalog Number: PA2012

About TSC1

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 Slechtenhorst 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 Slechtenhorst et al. (1998) showed that hamartin and tuberin associate physically in vivo, however, and that the interaction is mediated by predicted coiled-coil domains.

Overview

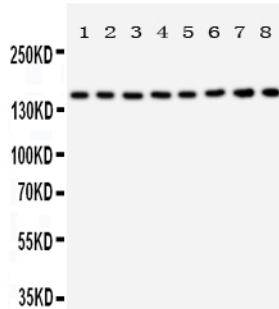
Product Name	Anti-Hamartin/TSC1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hamartin/TSC1 Antibody catalog # PA2012. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q92574

Technical Details

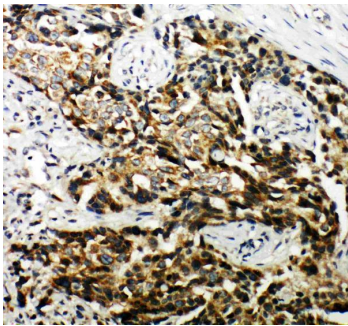
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Hamartin, identical to the related rat sequence, and different from the related mouse sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat

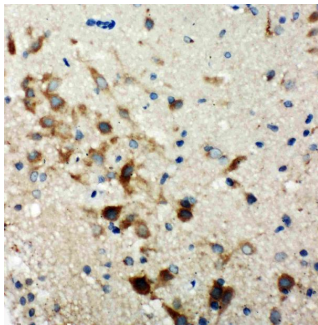
Anti-Hamartin/TSC1 Antibody Picoband® (PA2012) Images



Anti-Hamartin antibody, PA2012, Western blotting
All lanes: Anti Hamartin (PA2012) 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



Anti-Hamartin antibody, PA2012, IHC(P)
IHC(P): Human Mammary Cancer Tissue



Anti-Hamartin antibody, PA2012, IHC(P)
IHC(P): Rat Brain Tissue

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Anti-Hamartin/TSC1 Antibody

For Research Use Only. Not for use in diagnostic procedures.