For Research Use Only

Hamartin/TSC1 Polyclonal antibody

Catalog Number:29906-1-AP 4 Publications

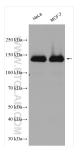


| Basic Information | Catalog Number: 29906-1-AP | GenBank Accession NM_000368 | lumber: | Purification Method: Antigen affinity purification | |
|------------------------|--|------------------------------------|-----------------------|---|--|
| | Concentration: 600 ug/ml | GenelD (NCBI): 7248 | | Recommended Dilutions: WB 1:1000-1:6000 | |
| | Source: Rabbit | UNIPROT ID: Q92574 | | IHC 1:250-1:1000 IF/ICC 1:50-1:500 | |
| | lsotype: IgG | Full Name: tuberous sclerosis 1 | | | |
| | Immunogen Catalog Number: AG31621 | Calculated MW: 130KD | | | |
| | | Observed MW: 140-145 kDa | | | |
| Applications | Tested Applications: | | Positive Con | trols: | |
| | WB, IHC, IF/ICC, ELISA | | WB : HeLa ce | eLa cells, mouse kidney tissue, MCF-7 cells | |
| | Cited Applications: WB, IHC, IF, IP | | IHC : mouse tissue | kidney tissue, mouse skeletal muscle | |
| | Species Specificity: human, mouse | | IF/ICC : hTE | /ICC : hTERT-RPE1 cells, | |
| | Cited Species: human, mouse | | | | |
| | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | | | |
| Background Information | TSC 1, also named as hamartin, interacts with TSC 2 to form a protein complex that inhibits the nutrient-mediated growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (PubMed: 12271141, PubMed: 28215400). It can recruit TSC 2 to HSP90AA1 and stabilizes TSC 2 by preventing the interaction between TSC 2 and ubiquitin ligase HERC1 (PubMed: 16464865, PubMed: 29127155). The loss of TSC1/TSC2 in mouse neurons resulted in a block in oligodendrocyte hypomyelination in vivo (PubMed: 28183733 | | | | |
| Notable Publications | Author | Pubmed ID Jour | mal | Application | |
| Notable Publications | | 39033992 Cell | Signal | WB | |
| Notable Publications | Mengmeng Zhang | | | | |
| Notable Publications | Mengmeng Zhang Xinlin Liu | 38890443 Br J | Cancer | WB,IP,IHC,IF | |
| Notable Publications | | | Cancer es Dis | WB,IP,IHC,IF IHC | |

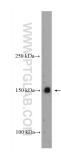
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

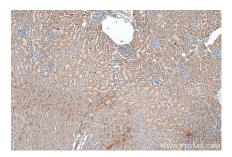
Selected Validation Data



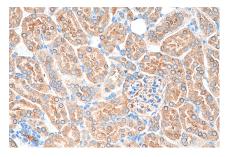
Various lysates were subjected to SDS PAGE followed by western blot with 29906-1-AP (TSC1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



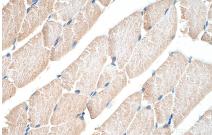
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 29906-1-AP (Hamartin/TSC 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 29906-1-AP (Hamartin/TSC1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



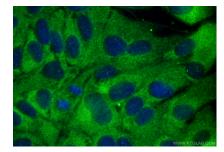
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 29906-1-AP (Hamartin/TSC1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 29906-1-AP (Hamartin/TSC1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 29906-1-AP (Hamartin/TSC 1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed hTERT-RPE1 cells using Hamartin/TSC1 antibody (29906-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).