

Product Name: Hamartin (7O10) Rabbit Monoclonal Antibody
Catalog #: AMRe11890



Summary

Production Name	Hamartin (7O10) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	TSC1
Alternative Names	Hamartin; kiaa0243; LAM; TSC; Tsc1; Tuberous sclerosis 1;
Gene ID	7248.0
SwissProt ID	Q92574.

Application

Dilution Ratio	WB 1:1000-1:5000
Molecular Weight	130kDa

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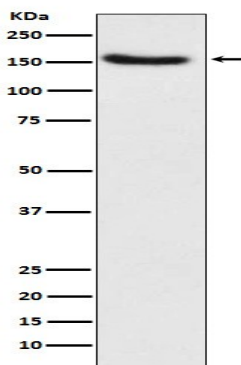


Background

In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Seems not to be required for TSC2 GAP activity towards RHEB. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (PubMed: [12271141](http://www.uniprot.org/citations/12271141), PubMed: [28215400](http://www.uniprot.org/citations/28215400)). Seems not to be required for TSC2 GAP activity towards RHEB (PubMed: [15340059](http://www.uniprot.org/citations/15340059)). Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity). Acts as a co- chaperone for HSP90AA1 facilitating HSP90AA1 chaperoning of protein clients such as kinases, TSC2 and glucocorticoid receptor NR3C1 (PubMed: [29127155](http://www.uniprot.org/citations/29127155)). Increases ATP binding to HSP90AA1 and inhibits HSP90AA1 ATPase activity (PubMed: [29127155](http://www.uniprot.org/citations/29127155)). Competes with the activating co- chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (PubMed: [29127155](http://www.uniprot.org/citations/29127155)). Recruits TSC2 to HSP90AA1 and stabilizes TSC2 by preventing the interaction between TSC2 and ubiquitin ligase HERC1 (PubMed: [16464865](http://www.uniprot.org/citations/16464865), PubMed: [29127155](http://www.uniprot.org/citations/29127155)).

Research Area

Image Data



Western blot analysis of Hamartin expression in HeLa cell lysate.

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Note

For research use only.