# antibodies .- online.com







# anti-TSC1 antibody (C-Term)



## **Images**



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Target:

Quantity:	100 μL
Target:	TSC1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human TSC1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	TSC1 Antibody detects endogenous levels of total TSC1.
Predicted Reactivity:	Horse,Sheep,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	

TSC1

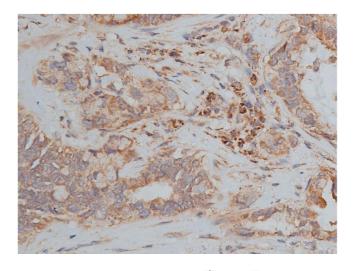
### Target Details

Alternative Name:	TSC1 (TSC1 Products)
Background:	Description: In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated
	phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling
	(PubMed:12271141, PubMed:28215400). Seems not to be required for TSC2 GAP activity
	towards RHEB (PubMed: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).
	Increases ATP binding to HSP90AA1 and inhibits HSP90AA1 ATPase activity
	(PubMed: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). Recruits TSC2 to HSP90AA1 and stabilizes TSC2 by preventing
	the interaction between TSC2 and ubiquitin ligase HERC1 (PubMed:16464865,
	PubMed:29127155).
	Gene: TSC1
Molecular Weight:	150 kDa
Gene ID:	7248
UniProt:	Q92574
Pathways:	RTK Signaling, AMPK Signaling, Regulation of Cell Size, Tube Formation
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

#### Handling

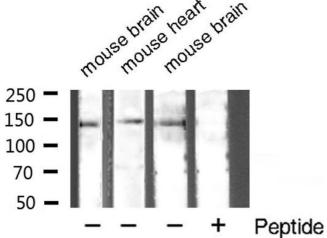
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



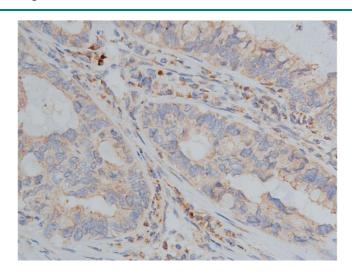
#### **Immunohistochemistry**

**Image 1.** ABIN6268647 at 1/50 staining human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### **Western Blotting**

**Image 2.** Western blot analysis of TSC1 expression in various cell lysate



#### Immunohistochemistry

**Image 3.** ABIN6268647 at 1/200 staining human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 5 images are available for ABIN6265766.