

# Product Datasheet

## TSC1 Antibody NB100-2821

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-2821**

TSC1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Product Description	
Host	Goat
Gene ID	7248
Gene Symbol	TSC1
Species	Human
Specificity/Sensitivity	This antibody is expected to recognise isoform 1 (NP_000359.1) only.
Immunogen	Peptide with sequence C-QLHIMDYNETHHEH corresponding to C-Terminus according to NP_000359.1.
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/mL, Immunohistochemistry 3.75 ug/mL, Immunohistochemistry-Paraffin 3.75 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx 150kDa band observed in Human Brain lysates (calculated MW of 130kDa according to NP_000359.1). WB also reported in scientific literature (PMID: 10915759).

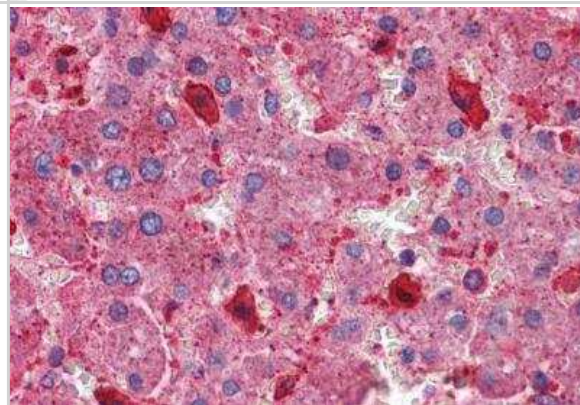


## Images

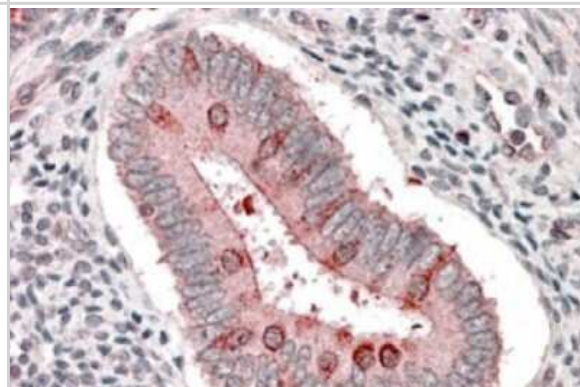
Western Blot: TSC1 Antibody [NB100-2821] - Staining of Human Brain lysate (35 ug protein in RIPA buffer). Antibody at 0.1 ug/mL. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
  
25kDa  
20kDa  
  
15kDa  
  
10kDa

Immunohistochemistry-Paraffin: TSC1 Antibody [NB100-2821] - Staining of paraffin embedded Human Liver. Antibody at 3.75 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Immunohistochemistry-Paraffin: TSC1 Antibody [NB100-2821] - Staining of paraffin embedded Human Uterus. Antibody at 3.75 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



## Publications

Chan JA, Zhang H, Roberts PS et al. Pathogenesis of tuberous sclerosis subependymal giant cell astrocytomas: biallelic inactivation of TSC1 or TSC2 leads to mTOR activation. J Neuropathol Exp Neurol 2004-12-01 [PMID: 15624760]

Miloloza A, Rosner M, Nellist M et al. The TSC1 gene product, hamartin, negatively regulates cell proliferation. Hum Mol Genet 2000-07-01 [PMID: 10915759]



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### **Products Related to NB100-2821**

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NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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