

# TSC22 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51591

## Product Information

Application	WB, ICC, IHC-P
Primary Accession	<a href="#">Q15714</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109677

## Additional Information

Gene ID	8848
Other Names	TSC22 domain family protein 1, Cerebral protein 2, Regulatory protein TSC-22, TGFB-stimulated clone 22 homolog, Transforming growth factor beta-1-induced transcript 4 protein, TSC22D1, KIAA1994, TGFB114, TSC22
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human TSC22. The exact sequence is proprietary.
Dilution	WB~~1:1000 ICC~~N/A IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	TSC22D1 ( <a href="#">HGNC:16826</a> )
Function	Transcriptional repressor (PubMed: <a href="#">10488076</a> ). Acts on the C- type natriuretic peptide (CNP) promoter (PubMed: <a href="#">9022669</a> ). Acts to promote CASP3-mediated apoptosis (PubMed: <a href="#">18325344</a> ). Positively regulates TGF-beta signaling by interacting with SMAD7 which inhibits binding of SMAD7 to TGFBR1, preventing recruitment of SMURF ubiquitin ligases to TGFBR1 and inhibiting SMURF-mediated ubiquitination and degradation of TGFBR1 (PubMed: <a href="#">21791611</a> ). Contributes to enhancement of TGF-beta signaling by binding to and modulating the transcription activator activity of SMAD4 (PubMed: <a href="#">15881652</a> ). Promotes TGF-beta- induced transcription of COL1A2; via its interaction with TFE3 at E- boxes in the gene proximal promoter (By similarity). Plays a role in the repression of hematopoietic precursor cell growth (By similarity). Promotes IL2 deprivation-induced apoptosis in T-lymphocytes, via repression of TSC22D3/GILZ transcription and activation of the caspase cascade (PubMed: <a href="#">26752201</a> ).

<b>Cellular Location</b>	Cytoplasm. Nucleus {ECO:0000250 UniProtKB:P62500}. Cell membrane; Peripheral membrane protein [Isoform 2]: Cytoplasm. Nucleus Mitochondrion
<b>Tissue Location</b>	Ubiquitously expressed in adult tissues (PubMed:26752201, PubMed:8651929). Expressed in the postmitotic epithelial compartment at the top of intestinal mucosal villi (PubMed:12468551).

## Background

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Transcriptional repressor. Acts on the C-type natriuretic peptide (CNP) promoter.

## References

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Jay P.,et al.Biochem. Biophys. Res. Commun. 222:821-826(1996).  
Ohta S.,et al.Eur. J. Biochem. 242:460-466(1996).  
Dmitrenko V.V.,et al.Cyt. Genet. 30:41-47(1996).  
Yazaki M.,et al.Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases.  
Kawamata H.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.

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