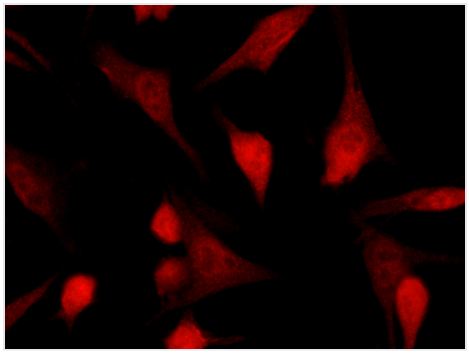
TSC22D1 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	TSC22D1, Monoclonal Antibody
Full Product Name	Recombinant Anti-TSC22D1 Antibody, Rabbit Monoclonal
Product Gene Name	anti-TSC22D1 antibody
Product Synonym Names	TSC22D1 Antibody, Rabbit MAb; TSC22 domain family, member 1; Anti-Ptg-2 Antibody; Anti-TGFB1I4 Antibody; Anti-TSC22 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	043
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human TSC22D1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	109,677 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (45006279..45150701, complement). Location: 13q14
OMIM	607715
3D Structure	ModBase 3D Structure for Q15714
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human TSC22D1 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human TSC22D1 (rh TSC22D1).
Applications Tested/Suitable for anti-TSC22D1 antibody	Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-TSC22D1 antibody	ICC/IF: 1:20-1:100
Related Product Information for anti-TSC22D1 antibody	TSC22 domain family, member 1 (TSC22D1) is one of the TGF-beta-stimulated clone-22 (TSC-22). TSC-22 was reported to be a differentiation-inducing factor that negatively regulates the growth of salivary gland cancer cells. TSC22D1, which encodes transforming growth factor beta-stimulated clone 22 (TSC-22), is thought to be a tumor suppressor because its expression is lost in many glioblastoma, salivary gland, and prostate cancers. TSC-22 is the founding member of the TSC-22/DIP/Bun family of leucine zipper transcription factors. TSC-22 may play an important role in maintaining the differentiated phenotype in salivary gland tumors, and may be a possible target of leukemia therapy. TSC22D1 forms homodimers via its conserved leucine zipper domain and heterodimerizes with TSC22D4. TSC22D1 has transcriptional repressor activity.

Product References and Citations for anti-TSC22D1 antibody	Doi Y, et al. (2008) Expression and cellular localization of TSC-22 in normal salivary glands and salivary gland tumors: implications for tumor cell differentiation. Oncol Rep. 19(3): 609-16.Wu X, et al. (2008) The Drosophila homolog of human tumor suppressor TSC-22 promotes cellular growth, proliferation, and survival. Proc Natl Acad Sci U S A. 105(14): 5414-9.Lu Y, et al. (2007) Identification of TSC-22 as a potential tumor suppressor that is upregulated by Flt3-D835V but not Flt3-ITD. Leukemia. 21(11): 2246-57.
Other Notes	Small volumes of anti-TSC22D1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TSC22D1 purchase	MBS8106584 is an antibody targeting TSC22D1. Also known as Recombinant Anti-TSC22D1 Antibody, Rabbit Monoclonal. Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-TSC22D1 antibody
Immunofluorescence staining of Human TSC22D1 in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human TSC22D1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 594-conjugated Goat Anti-rabbit IgG secondary antibody (red) and counterstained with DAPI (blue). Positive staining was localized to nucleus and cytoplasm.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSC22D1. It may not necessarily be applicable to this product.

NCBI GI #	345090986
NCBI GeneID	8848
NCBI Accession #	NP_001230728.1
UniProt Primary Accession #	Q15714
UniProt Secondary Accession #	O00666; Q6AHX5; Q6IBU1; Q8NCN1; Q96JS5; B3KRL7; B9EGI0
UniProt Related Accession #	Q15714
GenBank Nucleotide #	NM_001243799.1
NCBI Official Full Name	TSC22 domain family protein 1 isoform 4
NCBI Official Synonym Full Names	TSC22 domain family, member 1
NCBI Official Symbol	TSC22D1
NCBI Official Synonym Symbols	Ptg-2; TSC22; TGFB1I4
UniProt Protein Name	TSC22 domain family protein 1
UniProt Synonym Protein Names	Cerebral protein 2; Regulatory protein TSC-22; TGFB-stimulated clone 22 homolog; Transforming growth factor beta-1-induced transcript 4 protein
Protein Family	TSC22 domain family protein
UniProt Gene Name	TSC22D1

UniProt Synonym Gene Names	KIAA1994; TGFB1I4; TSC22
UniProt Entry Name	T22D1_HUMAN
NCBI Protein Information	TSC22 domain family protein 1; cerebral protein 2; regulatory protein TSC-22; TGFbeta-stimulated clone 22; TGFB-stimulated clone 22 homolog; transcriptional regulator TSC-22; transforming growth factor beta-stimulated protein TSC-22; transforming growth f
NCBI Summary for TSC22D1	This gene encodes a member of the TSC22 domain family of leucine zipper transcription factors. The encoded protein is stimulated by transforming growth factor beta, and regulates the transcription of multiple genes including C-type natriuretic peptide. The encoded protein may play a critical role in tumor suppression through the induction of cancer cell apoptosis, and a single nucleotide polymorphism in the promoter of this gene has been associated with diabetic nephropathy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for TSC22D1	TSC22D1: Transcriptional repressor. Acts on the C-type natriuretic peptide (CNP) promoter. Belongs to the TSC-22/Dip/Bun family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 13q14 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; positive regulation of apoptosis; positive regulation of cell proliferation; negative regulation of apoptosis
Research Articles on TSC22D1	**1.** TSC-22 acts as a tumor suppressor by safeguarding p53 from poly-ubiquitination mediated-degradation.
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