

TSC22D1 Blocking Peptide (C-Term)
Synthetic peptide
Catalog # BP21981b**Specification**

TSC22D1 Blocking Peptide (C-Term) - Product InformationPrimary Accession [Q15714](#)**TSC22D1 Blocking Peptide (C-Term) - 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, TGFB1I4, TSC22

Target/Specificity

The synthetic peptide sequence is selected from aa 908-920 of HUMAN TSC22D1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TSC22D1 Blocking Peptide (C-Term) - Protein Information**Name** TSC22D1 ([HGNC:16826](#))**Function**

Transcriptional repressor (PubMed:10488076). Acts on the C- type natriuretic peptide (CNP) promoter (PubMed:9022669). Acts to promote CASP3-mediated apoptosis (PubMed:18325344). 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:21791611). Contributes to enhancement of TGF-beta signaling by binding to and modulating the transcription activator activity of SMAD4 (PubMed:15881652). 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:26752201).

Cellular Location

Cytoplasm. Nucleus {ECO:0000250|UniProtKB:P62500}. Cell membrane; Peripheral membrane protein [Isoform 2]: Cytoplasm. Nucleus Mitochondrion

Tissue Location

Ubiquitously expressed in adult tissues (PubMed:8651929, PubMed:26752201). Expressed in the postmitotic epithelial compartment at the top of intestinal mucosal villi (PubMed:12468551).

TSC22D1 Blocking Peptide (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TSC22D1 Blocking Peptide (C-Term) - Images**TSC22D1 Blocking Peptide (C-Term) - Background**

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

TSC22D1 Blocking Peptide (C-Term) - References

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.