10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TSC22D3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16682c

Product Information

Application	IHC-P-Leica, WB, E
Primary Accession	Q99576
Other Accession	Q9EQZ1, P80220, NP_004080.2, NP_001015881.1
Reactivity	Human, Rat, Mouse
Predicted	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35282
Calculated MW	14810
Antigen Region	62-91

Additional Information

Gene ID	1831
Other Names	TSC22 domain family protein 3, DSIP-immunoreactive peptide, Protein DIP, hDIP, Delta sleep-inducing peptide immunoreactor, Glucocorticoid-induced leucine zipper protein, GILZ, TSC-22-like protein, TSC-22-related protein, TSC-22R, TSC22D3, DSIPI, GILZ
Target/Specificity	This TSC22D3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 62-91 amino acids from the Central region of human TSC22D3.
Dilution	IHC-P-Leica~~1:500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TSC22D3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSC22D3 (HGNC:3051)

Function	Protects T-cells from IL2 deprivation-induced apoptosis through the inhibition of FOXO3A transcriptional activity that leads to the down-regulation of the pro-apoptotic factor BCL2L11 (PubMed:15031210). In macrophages, plays a role in the anti- inflammatory and immunosuppressive effects of glucocorticoids and IL10 (PubMed:12393603). In T-cells, inhibits anti-CD3-induced NFKB1 nuclear translocation and thereby NFKB1 DNA-binding activities (PubMed:11468175). In vitro, suppresses AP-1 transcription factor complex DNA-binding activities (By similarity).
Cellular Location	[Isoform 1]: Cytoplasm {ECO:0000250|UniProtKB:Q9Z2S7}. Nucleus {ECO:0000250|UniProtKB:Q9Z2S7} Note=Localization depends on differentiation status of myoblasts (By similarity). In undifferentiated myoblasts; localizes to the cytoplasm, but in differentiating myoblast; localizes to the nucleus (By similarity). {ECO:0000250|UniProtKB:Q9Z2S7}
Tissue Location	Ubiquitously expressed, including in the fetal brain and liver (PubMed:26752201). Expressed in brain, lung, spleen and skeletal muscle (PubMed:11313722, PubMed:12393603). Lower levels detected in heart and kidney (PubMed:11313722, PubMed:12393603). Not detected in the pancreas (PubMed:11313722). In non-lymphoid tissues, in the absence of inflammation, the major source of constitutive expression is the macrophage lineage (PubMed:12393603). Also expressed in cells from different hemopoietic cell lineages, including bone marrow cells, CD34+ stem cells, mature B- and T-cells, monocytes and granulocytes (PubMed:11313722). Down-regulated in activated macrophages from inflammatory lesions of delayed-type hypersensitivity (DTH) reactions, such as in tuberculosis and in Crohn disease, whereas in Burkitt lymphoma, persists in macrophages involved in the phagocytosis of apoptotic malignant cells (PubMed:12393603)

Background

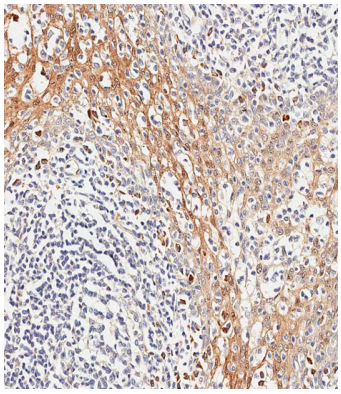
The protein encoded by this gene shares significant sequence identity with the murine TSC-22 and Drosophila shs, both of which are leucine zipper proteins, that function as transcriptional regulators. The expression of this gene is stimulated by glucocorticoids and interleukin 10, and it appears to play a key role in the anti-inflammatory and immunosuppressive effects of this steroid and chemokine. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq].

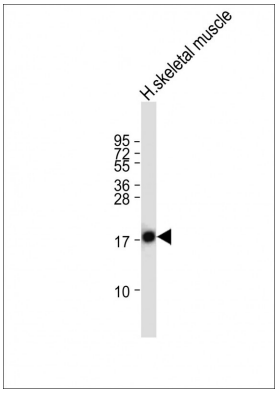
References

Latre de Late, P., et al. J. Biol. Chem. 285(8):5594-5605(2010)
Lekva, T., et al. J. Clin. Endocrinol. Metab. 95(1):246-255(2010)
Soundararajan, R., et al. Proc. Natl. Acad. Sci. U.S.A. 106(19):7804-7809(2009)
Zhang, X.H., et al. Clin. Exp. Allergy 39(5):647-654(2009)
Redjimi, N., et al. Mol. Cancer 8, 83 (2009) :

Images

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue using AP16682c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.





Anti-TSC22D3 Antibody (Center) at 1:2000 dilution + Human skeletal muscle tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.