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

TNMD Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12668c

Product Information

Application	WB, E
Primary Accession	Q9H2S6
Other Accession	NP_071427.2
Reactivity	Human, Mouse
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31361
Calculated MW	37130
Antigen Region	213-241

Additional Information

Gene ID	64102
Other Names	Tenomodulin, TeM, hTeM, Chondromodulin-1-like protein, ChM1L, hChM1L, Chondromodulin-I-like protein, Myodulin, Tendin, TNMD, CHM1L
Target/Specificity	This TNMD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 213-241 amino acids from the Central region of human TNMD.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	TNMD Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNMD
Synonyms	CHM1L

Function	May be an angiogenesis inhibitor.
Cellular Location	[Isoform 1]: Membrane; Single-pass type II membrane protein. Nucleus envelope [Isoform 3]: Cytoplasm.
Tissue Location	Highly expressed in hypovascular connective tissues such as tendons. Also has strong expression in adipose tissue

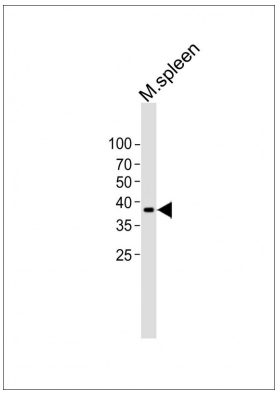
Background

This gene encodes a protein that is related to chondromodulin-I, which is a cartilage-specific glycoprotein that functions to stimulate chondrocyte growth and to inhibit tube formation of endothelial cells. This protein is also an angiogenesis inhibitor. Genetic variation in this gene is associated with a risk for type 2 diabetes, central obesity and serum levels of systemic immune mediators in a body size-dependent manner. This gene is also a candidate gene for age-related macular degeneration, though a direct link has yet to be demonstrated.

References

Saiki, A., et al. J. Clin. Endocrinol. Metab. 94(10):3987-3994(2009)
Tolppanen, A.M., et al. Neurobiol. Aging (2009) In press :
Tolppanen, A.M., et al. Mol. Vis. 15, 762-770 (2009) :
Tolppanen, A.M., et al. Int J Obes (Lond) 32(12):1868-1872(2008)
Kimura, N., et al. Circulation 118(17):1737-1747(2008)

Images



All lanes: Anti-TNMD Antibody (Center) at1:1000 dilution + Mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 37 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Induction of predominant tenogenic phenotype in human dermal fibroblasts via synergistic effect of TGF-β and elongated cell shape.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.