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TIMP4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10148c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99727
Other Accession	NP_003247.1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22433
Calculated MW	25503
Antigen Region	48-74

Additional Information

Gene ID	7079
Other Names	Metalloproteinase inhibitor 4, Tissue inhibitor of metalloproteinases 4, TIMP-4, TIMP4
Target/Specificity	This TIMP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-74 amino acids from the Central region of human TIMP4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	TIMP4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TIMP4
Function	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on

MMP-1, MMP-2, MMP-3, MMP-7 and MMP-9.

Cellular Location Secreted.

Tissue Location Abundant in heart and present at low levels in many other tissues

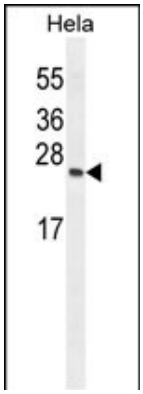
Background

This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling.

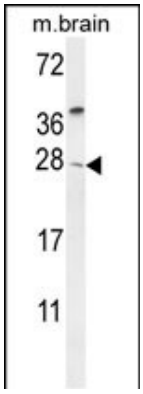
References

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Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Liss, M., et al. Am. J. Pathol. 175(3):940-946(2009)

Images

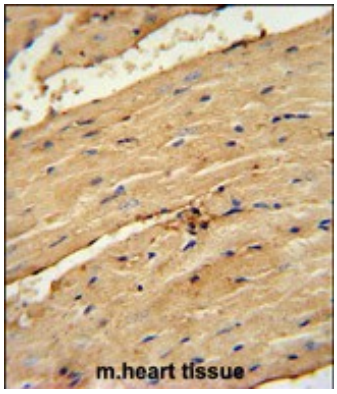


TIMP4 Antibody (Center) (Cat. #AP10148c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the TIMP4 antibody detected the TIMP4 protein (arrow).



TIMP4 Antibody (Center) (Cat. #AP10148c) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the TIMP4 antibody detected the TIMP4 protein (arrow).

TIMP4 Antibody (Center) (Cat. #AP10148c) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TIMP4 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



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