

TIMP1 Polyclonal Antibody

Catalog Number PA1-25310

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	ELISA (ELISA)	Assay-dependent
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunogen	Synthetic peptide corresponding to the first loop domain of human TIMP1.	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	Western Blot (WB)	1:1,000
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA1-25310 detects TIMP1 from human samples. This antibody does not cross-react with other TIMP family members.. PA1-25310 has been successfully used in immunohistochemistry (frozen) immunoprecipitation, and Western blot procedures. By Western blot, this antibody detects a 29 kDa band from reduced samples. Please note that TIMP1 is expressed in low (pg/ml) levels in most cell types. Treatment of cells with a phorbol ester (ie. PMA) stimulates production fo TIMP1 in some cell types, but concentration of cell culture media may still be necessary to visualize bands in WB. The PA1-25310 immunogen is a synthetic peptide corresponding to the first loop domain of human TIMP1. Store at 4°C short term. For extended storage aliquot and store at -20°C or below. Avoid freeze-thaw cycles.

Background/Target Information

TIMP1 (metalloproteinase inhibitor 1) is a metalloproteinase inhibitor that functions by forms one-to-one complexes with target metallproteinases, such as collagenases, and irreversible inactivates them by binding to their catalytic zinc cofactor. TIMP1 acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP14, and MMP16. It also functions as a growth factor that regulates cell differeneration, migration, and cell death. TIMP1 activates cellular signaling cascades via CD63 and ITGB1.

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