

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	TIMP-2, Human, pAb		
Catalog number	HP9076		
Lot number	-	Expiry date	-
Volume	100 µl	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.02%NaN3+0.5%BSA+50%glycerol	Concentration	1,0. mg/ml
Host Species	Rabbit IgG	Conjugate	None
Endotoxin	N.A.	Purification	Affinity purified
Storage	-20°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes			•			•		•
No								
N.D.	•	•		•	•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

General Information

Description	Tissue inhibitors of metalloproteinases (TIMPs) control metallo proteinases (MMPs), which are a large class of catalytic enzymes involved in a wide range of processes regulating tissue homeostasis. MMPs are formed as inactive zymogens which must be cleaved to become active. Activated MMPs are inhibited by four TIMPs. TIMPs form non-covalent complexes with MMPs. MMPs function through a divalent metal ion in their catalytic domain. TIMPS bind to this catalytic domain in a 1:1 ratio. TIMP and MMP expression and function are tightly regulated in order to contain a balance in proteolysis and proteolysis inhibition. Each TIMP targets multiple enzymes. TIMPs are ca 21Kda and share approximately 40% in amino acid sequence. The inhibitory capacity is located within the N-terminal domain. TIMP1 and TIMP3 are inducible, cell cycle regulated, glycosylated proteins expressed in many organs. TIMP2 is ubiquitous and constitutively expressed, whereas TIMP3 is tissue restricted. As extracellular proteins, the secretion, endocytosis and binding partners of TIMPs influence their localization. All TIMPs are secreted, but only TIMP3 is incorporated into the matrix. TIMP2 is associated with cancers, sclerosis and kidney injury. TIMP2 has a unique function given its crucial role in the formation of the MT1-MMP–TIMP2–proMMP2 ternary complex responsible for proMMP2 activation at the cell surface.		
Cross reactivity	Mouse: Yes; Rat: Yes		
Immunogen	Synthetic peptide, human TIMP-2		
Gene	Gene name: TIMP2	Entrez Gene ID 7077	Uniprot P16035
Storage&stability	Product should be stored at -20°C. Under recommended storage conditions, product is stable for at least one year.		
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.		

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
24/06/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.