



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Chicken anti-tissue inhibitor of metalloproteinases-3 (TIMP3) antibody

Catalog No:  
130-00010

Isotype:  
Chicken Ig Y

Species:  
Human

Accession No:  
NP\_000353

### Description

TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases-1, -2, -3 and -4) complex with metalloproteinases such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metallo-proteinase. TIMP-1 was found to be identical to EPA (erythroid potentiation activity). Parathyroid hormone has been shown to be a regulator of TIMP-2 in osteoblastic cells. TIMP-3 may be involved in regulating trophoblastic invasion of the uterus as well as in regulating remodeling of the extracellular matrix during the folding of epithelia, and in the formation, branching and expansion of epithelial tubes. TIMP-4 is most highly expressed in heart and low levels of TIMP-4 are expressed in liver, brain, lung, thymus and spleen.

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	#			1: 1000-5000
Western Blotting	#			1: 1000-2000
Enzyme Immunoassay(EIA)			#	
Immunohistology - paraffin			#	
Immunohistology - resin			#	
Immunoprecipitation			#	
Flow Cytometry			#	
Neutralization			#	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Preparation**

Immunogen was synthetic peptide derived from Human TIMP3. This antibody was produced from a chicken immunized with the immunogen. The IgY fraction was purified from collected egg followed by in-house affinity chromatography.

### **The binding activity**

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens as did in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat TIMP3 was not tested yet.

### **Reconstitution**

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final amount is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at  $4^{\circ}\text{C}$  for 1 month. **Please avoid freeze-thaw cycles.**

### **Storage**

Store at  $-20^{\circ}\text{C}$ , if not intended for use within a month, keep it at  $4^{\circ}\text{C}$  and minimize freezing and thawing when use.

### **Related products**

1. Rabbit Anti-human TIMP3, Cat# [RB-15-0001](#)
2. Recombinant Human TIMP3, Western Blot Control, Cat# [RB-15-0001](#)

### **Reference**

Apte, S.S., et al. 1994. Gene encoding a novel murine tissue inhibitor of metalloproteinases (TIMP), TIMP-3, is expressed in developing mouse epithelia, cartilage, and muscle, and is located on mouse chromosome 10. Dev. Dyn. 200: 177-197.

Silbiger, S.M., et al. 1994. Cloning of cDNAs encoding human TIMP-3, a novel member of the tissue inhibitor of metalloproteinase family. Gene 141:293-297.

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