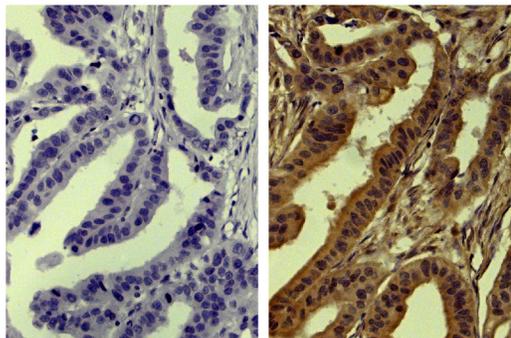




Mouse Anti-Human TIMP-4

Cat. No.	Format	Size
12035-01	Purified (UNLB)	0.1 mg
12035-05	Horseradish Peroxidase (HRP)	1.0 mL



Paraffin embedded human gastric cancer tissue was stained with Mouse Anti-Human TIMP-4-UNLB (SB. Cat. No. 12035-01; right) followed by HRP conjugated Anti-Mouse Ig secondary antibody, DAB, and hematoxylin.

Overview

Clone	SB30c
Isotype	Mouse (BALB/c) IgG _{2a} K
Immunogen	Recombinant human TIMP-4 (a.a. 35-224)
Specificity	Human/Mouse/Rat TIMP-4
Alternate Name(s)	Tissue inhibitor of metalloproteinase 4

Description

Tissue inhibitors of matrix metalloproteinases (TIMPs) constitute a family of secreted multifunctional proteins which are classified based on structural similarity to each other as well as their ability to inhibit matrix metalloproteinases (MMPs). TIMPs play a critical role in ECM homeostasis but have also been shown to have erythroid-potentiating and cell growth-promoting activities. TIMP-4, unlike TIMP-1, TIMP-2 and TIMP-3, shows restricted localization to cardiac, neural, breast, and muscle tissue. Cardiospecific TIMP-4 seems to play a significant role in regulating the normal cell phenotype since reduced levels elicit cellular transformation.

Applications

WB – Quality tested ¹⁻³
 IHC-PS ⁴
 ICC ⁴
 ELISA ⁵

Working Dilutions

Immunoblotting	Purified (UNLB) antibody	≤ 2 µg/mL
	HRP conjugate	1:1,000 – 1:2,000

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified antibody (UNLB) is supplied as 0.1 mg purified immunoglobulin in 0.2 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- Reagents are stable for the period shown on the label if stored as directed.

References

1. Alarab M, Kufaishi H, Lye S, Drutz H, Shynlova O. Expression of extracellular matrix-remodeling proteins is altered in vaginal tissue of premenopausal women with severe pelvic organ prolapse. *Reprod Sci.* 2014;21:704-15. (WB)
2. Zambirinis CP, Levie E, Nguy S, Avanzi A, Barilla R, Xu Y, et al. TLR9 ligation in pancreatic stellate cells promotes tumorigenesis. *J Exp Med.* 2015;212:2077-94. (WB, Mouse Reactivity)
3. Ketsawatsomkron P, Keen HL, Davis DR, Lu K, Stump M, De Silva TM, et al. Protective role for tissue inhibitor of metalloproteinase-4, a novel peroxisome proliferator-activated receptor- γ target gene, in smooth muscle in deoxycorticosterone acetate-salt hypertension. *Hypertension.* 2016;67:214-22. (WB, Mouse & Rat Reactivity)
4. SouthernBiotech published data (IHC-PS, ICC)
5. SouthernBiotech unpublished data (ELISA)