

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TIMP-4 in ELISAs and Western blots. In ELISAs, no cross-reactivity with recombinant human TIMP-1, -2, -3, or recombinant mouse TIMP-1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 153934
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TIMP-4 Cys30-Pro244 Accession # Q99727
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

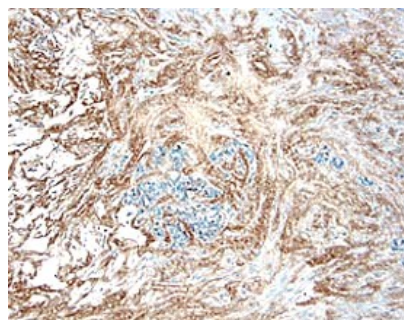
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human TIMP-4 (Catalog # 974-TSF)
Immunohistochemistry	8-25 µg/mL	See Below
Human TIMP-4 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human TIMP-4 Antibody (Catalog # MAB974)
ELISA Detection	0.1-0.4 µg/mL	Human TIMP-4 Biotinylated Antibody (Catalog # BAF974)
Standard		Recombinant Human TIMP-4 (Catalog # 974-TSF)

DATA

Immunohistochemistry



TIMP-4 in Human Breast Cancer Tissue. TIMP-4 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using 25 µg/mL Mouse Anti-Human TIMP-4 Monoclonal Antibody (Catalog # [MAB974](#)) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # [CTS002](#)) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TIMP-4 is a secreted protein that inhibits most MMPs by forming a noncovalent complex with the MMP active site. It is highly expressed in brain, heart, ovary, and skeletal muscle.