

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TIMP-2 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Goat IgG Clone # 40019A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Chinese hamster ovary cell line, CHO derived recombinant human TIMP-2 Cys27-Pro220 Accession # P16035
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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	See Below
Immunohistochemistry	3-25 µg/mL	See Below

DATA

<p>Western Blot</p>	<p>Detection of Human TIMP-2 by Western Blot. Western blot shows Recombinant Human TIMP-2 Western Blot Standard Protein (Catalog # WBC023) and lysates of HeLa human cervical epithelial carcinoma cell line and human placenta tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TIMP-2 Monoclonal Antibody (Catalog # MAB97112) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for TIMP-2 at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p> <p>TIMP-2 in Human Pancreatic Cancer Tissue. TIMP-2 was detected in immersion fixed paraffin-embedded sections of human pancreatic cancer tissue using Goat Anti-Human TIMP-2 Monoclonal Antibody (Catalog # MAB97112) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. 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 opening. • 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

Tissue inhibitors of metalloproteinases or TIMPs are a family of proteins that regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases (MMPs). There are four members of the family, TIMP-1, TIMP-2, TIMP-3, and TIMP-4. TIMP-2 is a non N-glycosylated protein with a molecular mass of 22 kDa produced by a wide range of cell types, which inhibits MMPs non-covalently by the formation of binary complexes. TIMP-2 also has erythroid-potentiating and cell growth promoting activities.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.