TIMP-2 (3A4): sc-21735

**BACKGROUND**

TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases - 1, -2, -3 and -4) complex with metalloproteinase such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metalloproteinase. 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.

**CHROMOSOMAL LOCATION**

Genetic locus: TIMP2 (human) mapping to 17q25.3, Timp2 (mouse) mapping to 11 E2.

**SOURCE**

TIMP-2 (3A4) is a mouse monoclonal antibody raised against amino acids 58-66 of TIMP-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG_2a_ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TIMP-2 (3A4) is available conjugated to agarose (sc-21735 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-21735 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-21735 PE), fluorescein (sc-21735 FITC), Alexa Fluor® 488 (sc-21735 AF488), Alexa Fluor® 546 (sc-21735 AF546), Alexa Fluor® 594 (sc-21735 AF594) or Alexa Fluor® 647 (sc-21735 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-21735 AF680) or Alexa Fluor® 790 (sc-21735 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

TIMP-2 (3A4) is recommended for detection of TIMP-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of TIMP-2: 21 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or human salivary gland extract: sc-363762.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

For detailed protocols and support products, see our web site at www.scbt.com.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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