

Basic Information

Product Name	Anti-TIMP1 Antibody
Gene Name	Timp1
Source	Rabbit
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived mouse TIMP1 recombinant protein (Position: H31-N193).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	23-28KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow cytometry (FCM):1-3 µg/1x10 ⁶ cells ELISA: 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

TIMP metalloproteinase inhibitor 1, also known as TIMP1, a tissue inhibitor of metalloproteinases, is a glycoprotein that is expressed from the several tissues of organisms. This protein is a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. TIMP was found to be located about 22 cM proximal to OTC (300461).

Selected Validation Data

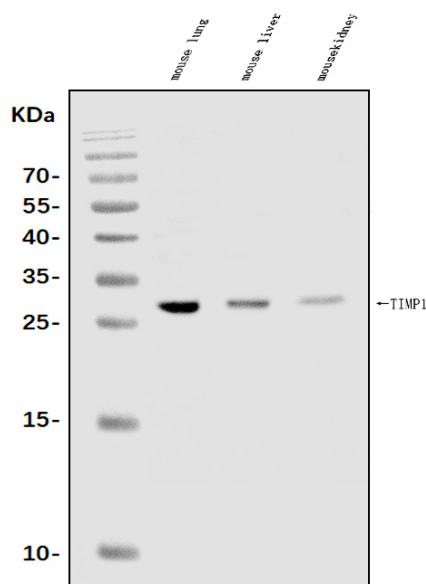


Figure 1. Western blot analysis of anti-TIMP1 antibody (A00561-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: mouse lung tissue lysates,

Lane 2: mouse liver tissue lysates,

Lane 3: mouse kidney tissue lysates.

Use rabbit anti-TIMP1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TIMP1 at approximately 23-28KD. The expected band size for TIMP1 is at 23KD.

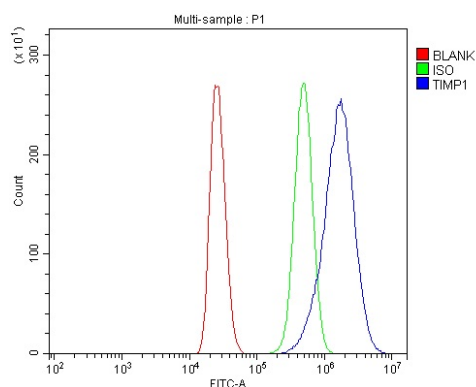


Figure 2. Flow cytometry analysis of RAW264.7 cell (1x10⁶) DyLight 488 conjugated goat anti-rabbit IgG (blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).