

## 36-3256: Anti-TIMP1 (Marker of Lymph Node Metastasis) Monoclonal Antibody(Clone: 2A5)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	2A5
<b>Application :</b>	ELISA
<b>Reactivity :</b>	Human
<b>Gene :</b>	TIMP1
<b>Gene ID :</b>	7076
<b>Uniprot ID :</b>	P01033
<b>Alternative Name :</b>	Collagenase inhibitor; EPO; Erythroid-Potentiating Activity (EPA); Fibroblast collagenase inhibitor; Human Collagenase Inhibitor (HCI); Metalloproteinase inhibitor 1; Tissue Inhibitor of Metalloproteinase 1 (TIMP1)
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	A synthetic peptide (aa 72-82) of human TIMP1 protein (FQALGDAADIR)

### Description

TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases -1, -2, -3 and -4) complex with metalloproteinases such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metalloproteinase. TIMP-1 is identical to EPA (erythroid-potentiating activity). PTH 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 tissues. Studies have demonstrated that TIMP1 is useful as a biomarker for early detection of colorectal cancer, outperforming CEA. Additionally, TIMP1 studies have demonstrated its role in CRC tumorigenesis, as well as observing its overexpression in metastatic lymph nodes.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA);

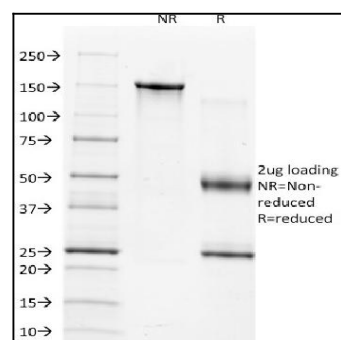


Fig. 1: SDS-PAGE Analysis of Purified TIMP1 Mouse Monoclonal Antibody (2A5). Confirmation of Integrity and Purity of Antibody.