

# Anti-TIMP1 [2A5]

**Catalogue number:** 151836

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Ayham Alnabulsi

**Institute:** Vertebrate Antibodies Limited

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-TIMP1 [2A5]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix (ECM) in normal physiological processes as well as in disease processes. Tissue inhibitors of metalloproteinases (TIMPs) are the main physiological regulators of the MMPs. The TIMPs are secreted proteins that complex with individual MMPs and regulate the activity of specific MMPs. Together, the MMPs and TIMPs form a complex biological system strictly controlling degradation of ECM. The MMPs and TIMPs have a significant role in facilitating tumour invasion and metastasis. Expression of TIMP1 has been identified in individual studies as prognostic biomarkers in established and locally advanced colorectal cancer.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Ovalbumin-conjugated synthetic peptide; FQALGDAADIR

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** IHC: formalin-fixed, paraffin-embedded colonic adenocarcinoma. Western blot: rhTIMP-1, 400 ng per lane

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** TIMP1 (tissue inhibitor of metalloproteinases 1)

**Target alternate names:**

**Target background:** Matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix (ECM) in normal physiological processes as well as in disease processes. Tissue inhibitors of metalloproteinases (TIMPs) are the main physiological regulators of the MMPs. The TIMPs are secreted proteins that complex with individual MMPs and regulate the activity of specific MMPs. Together, the MMPs and TIMPs form a complex biological system strictly controlling degradation of ECM. The MMPs and TIMPs have a significant role in facilitating tumour invasion and metastasis. Expression of TIMP1 has been identified in individual studies as prognostic biomarkers in established and locally advanced colorectal cancer.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** ELISA ; IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -80° C

**Shipping conditions:**

Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Aust et al., 2009. J. Immunol. 183:106 16. PMID: 19535641

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