Anti-MMP9 [2C3]

Catalogue number: 151621
Sub-type: Primary antibody
Images:

Contributor

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Institute: Vertebrate Antibodies Limited
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-MMP9 [2C3]

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 MMP9 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; KLGLGADVAQVT
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Production details:
Formulation:
Recommended controls: IHC: formalin-fixed, paraffin-embedded lung containing intra-alveolar macrophage. Western Blot: rhMMP-9, 400 ng per lane
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Human matrix metalloproteinase 9 (MMP-9)

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 MMP9 has been identified in individual studies as prognostic biomarkers in established and locally advanced colorectal cancer.

Molecular weight:

Ic50:

Applications

Application: IHC ; IF ; IP ; 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: -15° C to -25° C
Shipping conditions:

Shipping at 4° C

Related tools

Related tools:

References

References: Jeffery et al. 2009. Histopathology. 54(7):820-8. PMID: 19635101. ; The matrix metalloproteinase/tissue inhibitor of matrix metalloproteinase profile in colorectal polyp cancers. ; Lyall et al. 2006. Clin Cancer Res. 12(4):1184-91. PMID: 16489072. ; Profiling markers of prognosis in colorectal cancer. ; Curran et al. 2004. Clin Cancer Res. 10(24):8229-34. PMID: 15623598. ; Matrix metalloproteinase/tissue inhibitors of matrix metalloproteinase phenotype identifies poor prognosis colorectal cancers. ; Murray et al. 1998. Gut. 43(6):791-7. PMID: 9824606. ; Matrix metalloproteinases and their inhibitors in gastric cancer. ; Murray et al. 1998. J Pathol. 185(3):256-61. PMID: 9771478. ; Matrix metalloproteinase-1 is associated with poor prognosis in oesophageal cancer.