RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG_{2A} Clone # 1036203 Catalog Number: MAB9073

| DESCRIPTION | |
|--------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human MMP-7 in sandwich ELISAs. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 1036203 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived human MMP-7 Leu18-Lys267 Accession # P09237 |
| Formulation | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

APPLICATIONS

| Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. | | | |
|---|--|--|--|
| | Recommended Concentration | Sample | |
| Immunocytochemistry | 8-25 μg/mL | Immersion fixed Capan-1 human pancreatic adenocarcinoma cell line | |
| ELISA | This antibody functions as an ELISA capture antibody when paired with Mouse Anti-Human MMP-7 Monoclonal Antibody (Catalog # MAB9074). | | |
| | This product is intended for access development on various access platforms requiring antibody pairs | | |

This product is intended for assay development on various assay platforms requiring antibody pairs.

DATA

Immunocytochemistry





Positive (CAPAN-1 cells)

MMP-7 in Capan-1 Human Cell Line. MMP-7 was detected in immersion fixed Capan-1 human pancreatic adenocarcinoma cell line (positive staining) and HeLa human cervical epithelial carcinoma cell line (negative control) using Mouse Anti-Human MMP-7 Monoclonal Antibody (Catalog # MAB9073) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

| REPARATION AND STORAGE | | |
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BACKGROUND

Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and is capable of digesting a large series of proteins of the extracellular matrix including collagen IV and X, gelatin, casein, laminin, aggrecan, entactin, elastin and versican. MMP-7 is implicated in the activation of other proteinases such as plasminogen, MMP-1, MMP-2, and MMP-9. In addition to its roles in connective tissue remodeling and cancer, MMP-7 also regulates intestinal α-defensin activation in innate host defense, releases tumor necrosis factor-α in a model of herniated disc resorption, and cleaves FasL to generate a soluble form in a model of prostate involution. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site.

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