

ARG66423 anti-MMP7 (total) antibody [SQab18125]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab18125] recognizes MMP7 (total)
Tested Reactivity	Hu
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	SQab18125
Isotype	IgG2a, kappa
Target Name	MMP7 (total)
Species	Human
Immunogen	Recombinant Human MMP7 protein.
Conjugation	Un-conjugated
Alternate Names	MMP-7; Uterine metalloproteinase; Matrix metalloproteinase-7; EC 3.4.24.23; Matrilysin; Matrin; Pump-1 protease; PUMP-1; MPSL1

Application Instructions

Application table	Application	Dilution
	ELISA	1:3000 - 1:10000
	FACS	1:400 - 1:1000
	ICC/IF	1:400 - 1:1000
	IHC-P	Assay-dependent
	WB	1:2500 - 1:5000
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

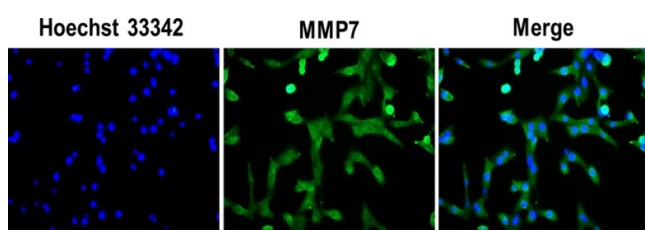
Properties

Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4) and 0.01% Thimerosal.
Preservative	0.01% Thimerosal
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

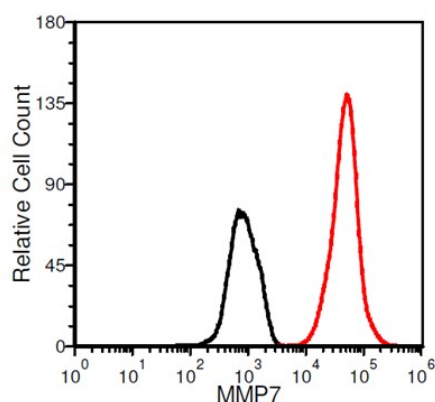
Gene Symbol	MMP7
Gene Full Name	matrix metalloproteinase 7
Background	MMP7 is a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes on chromosome 11. This gene exhibits elevated expression levels in multiple human cancers. [provided by RefSeq, Jan 2016]
Function	MMP7 degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase. [UniProt]
Calculated Mw	30 kDa
Cellular Localization	Secreted, extracellular space, extracellular matrix. [UniProt]

Images



ARG66423 anti-MMP7 (total) antibody [SQab18125] ICC/IF image

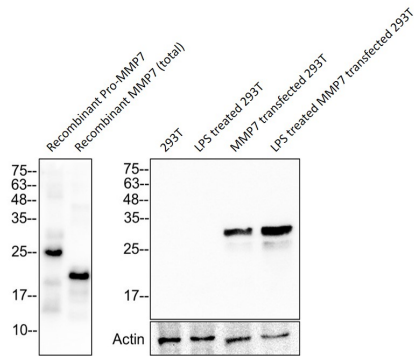
Immunofluorescence: A549 cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with ARG66423 anti-MMP7 (total) antibody [SQab18125] (green) at 1:200 dilution and cell nuclei were stained with Hoechst 33342 (blue).



ARG66423 anti-MMP7 (total) antibody [SQab18125] FACS image

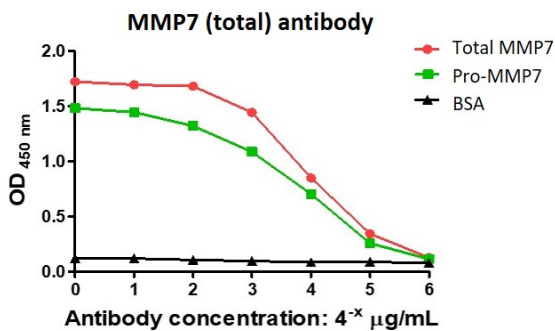
Flow Cytometry: A549 cells were stained with ARG66423 anti-MMP7 (total) antibody [SQab18125] at 2 µg/ml (red) and without antibody control (black).

ARG66423 anti-MMP7 (total) antibody [SQab18125] WB image



Western blot: 50 ng of Recombinant Pro-MMP7, 50 ng of Recombinant MMP7 (total), 30 µg of 293T, 30 µg of LPS treated 293T, 30 µg of MMP7 transfected 293T and 30 µg of LPS treated MMP7 transfected 293T cell lysates stained with ARG66423 anti-MMP7 (total) antibody [SQab18125] at 1:5000 dilution. The expression of Actin was as the internal control.

ARG66423 anti-MMP7 (total) antibody [SQab18125] ELISA image



ELISA: Titration curve of ARG66423 anti-MMP7 (total) antibody [SQab18125]. Red: MMP7 (active); Green: MMP7 (proenzyme); Black: BSA (negative control).