

Product datasheet for AM08198PU-N

MMP2 Mouse Monoclonal Antibody [Clone ID: SB13a]

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Clone Name:	SB13a
Applications:	ELISA, IHC
Recommended Dilution:	ELISA: 1/3,000-1/8,000. Immunohistochemistry (Frozen/Paraffin): < / = 2 μg/ml.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Recombinant MMP-2.
Specificity:	This antibody is specific for Human MMP-2. Does not cross react to Human MMP-1, MMP-3 or MMP-9.
Formulation:	100 mM Borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	matrix metallopeptidase 2
Database Link:	<u>Entrez Gene 4313 Human</u> <u>P08253</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	MMP2 Mouse Monoclonal Antibody [Clone ID: SB13a] – AM08198PU-N
--	--

Background:	The matrix metalloproteinases (MMPs) are a family of at least eighteen secreted and
	membrane-bound zinc endopeptidases. Collectively, these enzymes can degrade all the
	components of the extracellular matrix, including fibrillar and non-fibrillar collagens,
	fibronectin, laminin and basement membrane glycoproteins. In general, a signal peptide, a
	propeptide, and a catalytic domain containing the highly conserved zinc-binding site
	characterizes the structure of the MMPs. In addition, fibronectin-like repeats, a hinge region,
	and a C terminal hemopexin-like domain allow categorization of MMPs into the collagenase,
	gelatinase, stomelysin and membrane type MMP subfamilies. All MMPs are synthesized as
	proenzymes, and most of them are secreted from the cells as proenzymes. Thus, the
	activation of these proenzymes is a critical step that leads to extracellular matrix breakdown.
	MMPs are considered to play an important role in wound healing, apoptosis, bone
	elongation, embryo development, uterine involution, angiogenesis and tissue remodeling,
	and in diseases such as multiple sclerosis, Alzheimer's, malignant gliomas, lupus, arthritis,
	periodontis, glumerulonephritis, atherosclerosis, tissue ulceration, and in cancer cell invasion and metastasis.
	MMP2, also known as Gelatinase A, is a type IV collagenase that specifically cleaves type IV
	collagen, the major structural component of basement membranes. The metastatic potential
	of tumor cells has been found to correlate with the activity of this enzyme.

Synonyms: MMP2, CLG4A, 72 kDa gelatinase, Matrix metalloproteinase-2, Gelatinase A, TBE-1

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US