

Mouse anti-Human MMP-9 Activated, clone 4A3 (Monoclonal)

Clone no. 4A3

MONOSAN

Product name	Mouse anti-Human MMP-9 Activated, clone 4A3 (Monoclonal)
Host	Mouse
Applications	IHC-P, WB
Species reactivity	human
Conjugate	-
Immunogen	Ovalbumin conjugated synthetic peptide corresponding to a region within the N-terminus of human MMP-9
Isotype	IgG1
Clonality	Monoclonal
Clone number	4A3
Size	0.2 mg
Concentration	IgG 0.5 mg/ml
Format	Purified
Storage buffer	PBS with <0.1% sodium azide
Storage until expiry date	aliquots -20°C. Thawed 2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

Mouse anti Human MMP-9 Activated antibody, clone 4A3 recognizes the active form of human matrix metalloproteinase 9 (MMP-9). The MMP's are zinc-dependent endopeptidases responsible for degrading the extracellular matrix. They are also involved in cell proliferation, migration, differentiation and apoptosis. Most MMP's are synthesised as inactive zymogens and a propeptide region must be cleaved off before the enzyme becomes active. Their expression is increased dramatically in a variety of cancer types, where it indicates invasive disease and a poor prognosis. MMP-9 is a gelatinase, cleaving type IV collagen and gelatin. The gelatinases have an additional gelatin-binding domain inserted in the catalytic domain. MMP-9, alongside other MMPs, plays a role in normal tissue remodeling such as embryonic development, ovulation, mammary gland involution and wound healing. It is important in the early stages of tumor invasion as it degrades the type IV collagen in the basement membrane

References

1. Duncan ME et al. Eur J Biochem 1998; 258: 37-43
2. Selemetjev S et al. Am J Clin Pathol 2016; pii: aqw184 (Epub ahead of print)
3. -
4. -
5. -

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