

Monoclonal Anti-human HME/MMP-12 Product reference: DDX0282

Description:

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes. HME/MMP-12, also called metalloelastase, is reported only in a few cells, including tissue macrophages and hypertrophic chondrocytes. MMP-12 is critical for invasion and destruction in pathologies such as aneurysm and emphysema. The predicted molecular mass of the HME proenzyme is 54 kDa. HME mRNA and protein were detected in human alveolar macrophages. Similar to murine macrophage metalloelastase, HME readily undergoes NH2- and COOH-terminal processing to a mature 22kDa form. Both recombinant HME expressed in Escherichia coli and native HME derived from human alveolar macrophage-conditioned media degraded insoluble elastin. HME is a unique human metalloproteinase that possesses elastolytic activity and is expressed in alveolar macrophages; MMP-12 mediates smoke-induced inflammation by releasing TNF- α from macrophages, with subsequent endothelial activation, neutrophil influx, and proteolytic matrix breakdown caused by neutrophil-derived proteases. (*Demets IK et al, 2006; Thorax, 61:196-201*)

Clones:	705D10.11
Species/isotype:	mouse, IgG1
Specificity:	human HME/MMP-12
Immunogen:	recombinant HME
Species cross-reactivity:	nd
Formulation/size:	Purified : 100 µg in 200 µl / 50 µl in 100 µl Tris-NaCl pH 8
	Coupled : 100 μ g in 200 μ l / 50 μ l in 100 μ l PBS 50% glycerol

Available formats:	Referen	Reference N°		Application tested	
	50 µg	100 µg		**	
	DDX0282P-50	DDX0282P-100	purified	ELISA Capture and runs with 706F9.01-HRPconjugated, IP, WB	
L	Other clones	s available on requ	est	<u></u>	
Applications tested:	This monoclonal antibody have been tested in ELISA.				
Usage recommendation:	Capture : 3µg/ml Detection: 5µg/m	l antibody may be u in Carbonate buffe nl in PBS-BSA-twe n should be determin	r (pH 9,6) en	a laboratory for each	
Aliquot storage conditions:	-20°C. KEEP CO	NTENTS STERILE	: no preserv	vative.	

orage conditions: -20°C. KEEP CONTENTS STERILE: no preservative. <u>Purified</u> antibodies: avoid repeated freeze/thaw cycles. <u>Coupled</u> antibodies: glycerol protects from freezing.

> Not for use in Humans. For research purpose only net +33(0)4.72.71.74.03

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