

Monoclonal Anti-human HME-MMP-12

Product reference: DDX0280

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 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 22 kDa form. Both recombinant expressed in *Escherichia Coli* and native HME derived from human alveolar macrophage-conditioned media degraded insoluble elastin. HME is a unique human metalloproteinase that displays elastolytic activity and is expressed in alveolar macrophages; MMP12 mediates smoke-induced inflammation by releasing TNFα 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: 603E6.22 Species: mouse

Specificity: human HME-MMP12 (epitope in proenzymatic region)

Immunogen: recombinant HME

Species cross-reactivity: nd **IgG1**

Purification: QMA Hyper D ion exchange chromatography

Formulation/size: Purified: 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8

Coupled: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol

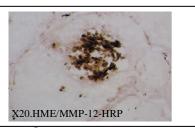
Available formats:

Reference N°		Format	Application tested
50 μg	100 μg	rormat	Application tested
DDX0280P-50	DDX0280P-100	purified	ELISA,IHC frozen section, IP
DDX0280B-50	DDX0280B-100	biotin	IHC frozen section

Other clones available on request

Applications tested: IHC





Human lung tissue sections

Usage recommendation: *This monoclonal antibody may be used between 5-20µg/ml.

*Optimal dilution should be determined by each laboratory for each

application.

*Coupled antibody: to maintain RT before use.

Aliquot storage conditions: -20°C. KEEP CONTENTS STERILE: no preservative.

<u>Purified</u> antibodies: avoid repeated freeze/thaw cycles. Coupled antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only

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