

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	MMP2, Human, clone 3A8-C1-E8		
Catalog number	HM2388		
Lot number	-	Expiry date	-
Volume	100 µl	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.02%NaN3+0.5%BSA+50%glycerol	Concentration	1 mg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Affinity purified
Storage	-20°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		•
No								
N.D.	•	•	•	•	•		•	

N.D. = Not Determined; *IHC* = Immuno histochemistry; *F* = Frozen sections; *P* = Paraffin sections; *IF* = Immuno Fluorescence; *FC* = Flow Cytometry; *FS* = Functional Studies; *IA* = Immuno Assays; *IP* = Immuno Precipitation; *W* = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

General Information

Description	Monoclonal antibody HM2388 recognizes human metallo proteinase-2 (MMP2 or gelatinase-A). MMPs are a large class of zinc dependent catalytic enzymes. They cleave or degrade virtually all components of the extracellular matrix. MMPs are involved in a wide range of processes like tissue remodeling, wound healing, angiogenesis and regulation of inflammatory processes. They are also involved in pathological processes such as rheumatoid arthritis, inflammation, atherosclerosis and tumor growth and metastasis. MMPs are formed as inactive zymogens which must be cleaved to become active. Activated MMPs are inhibited by four TIMPs. TIMP and MMP expression and function are tightly regulated in order to contain a balance in proteolysis and proteolysis inhibition. MMP2 (72Kda) is secreted as an inactive proMMP2 and becomes active when captured by membrane bound MMPs. The amino-acid sequence is quite conserved (96-97%) between human, pig, rat and mouse. MMP2 has a well-known role in tumor growth, invasion and metastasis and is correlated with poor prognosis in some tumors.		
Cross reactivity	Rat: Yes		
Immunogen	Purified recombinant human MMP-2 protein expressed in E.coli.		
Gene	Gene name: MMP2	Entrez Gene ID 4313	Uniprot P08253
Storage&stability	Product should be stored at -20°C. Under recommended storage conditions, product is stable for at least one year.		
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.		

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
21/06/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.