

AM08200PU-N Monoclonal Antibody to MMP-9 - Purified

Alternate names:	92 kDa gelatinase, 92 kDa type IV collagenase, CLG4B, GELB, Gelatinase B, MMP9, Matrix metalloproteinase-9
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	MMP9, also known as gelatinase B, is a secreted enzyme which degrades the interstitial collagens, types I, II, and III and is produced by normal alveolar macrophages and granulocytes. The expression of MMP9 increases in Epstein-Barr virus infected lymphoma derived cell lines and may be of significance in typically invasive nasopharyngeal carcinomas. MMP9 is constitutively produced by some tumor cell lines (e.g.: HT1080, HL60, U937) but not by most quiescent cells and tissues. Treatment of cells with the phorbol ester TPA stimulates production of MMP9 in some cell types, but the low protein levels produced (pg/ml) often require concentration of cell culture media to visualize the bands by Western blotting.
Uniprot ID:	P14780
NCBI:	NP_004985
GeneID:	4318
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	SB15c
Immunogen:	Recombinant full length MMP-9.
Format:	State: Liquid purified Ig fraction. Buffer System: 100 mM Borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added.
Applications:	ELISA: $\leq 1 \mu\text{g/ml}$. Immunohistochemistry on Frozen Sections. Immunohistochemistry-Paraffin Sections (Ref-1-3). Immunoblotting (Reported in literature, See also Ref.4). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for Human MMP-9. Does not cross react to Human MMP-1, MMP-2 or MMP-3.
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. Shelf life: one year from despatch.

General Readings:

1. Ye H, Yu T, Temam S, Ziober BL, Wang J, Schwartz JL, et al. Transcriptomic dissection of tongue squamous cell carcinoma. *BMC Genomics*. 2008;9:69.
2. Ouvrier A, Alves G, Damon-Soubeyrand C, Marceau G, Cadet R, Janny L, et al. Dietary cholesterol-induced post-testicular infertility. *PLoS One*. 2011;6(11):e26966.
3. Stenvold H, Donnem T, Andersen S, Al-Saad S, Al-Shibli K, Busund L, et al. Overexpression of matrix metalloproteinase-7 and -9 in NSCLC tumor and stromal cells: correlation with a favorable clinical outcome. *Lung Cancer*. 2012;75:235-41.
4. Liu G, Liu Y, Yang Z, Zhu A, Zhao C. MicroRNA-524-5p suppresses the growth and invasive abilities of gastric cancer cells. *Oncol Lett*. 2016;11:1926-32.

Pictures:

Immunohistochemistry (Paraffin-Embedded Sections): Human colon tissue stained with AM08200PU-N at 5 μ g/ml.

