

Recombinant Rat MMP9 cell lysate

Cat. No. MMP9-1940RCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat MMP-9 / CLG4B derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Rat
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	Mmp9 matrix metalloproteinase 9 [Rattus norvegicus]
Official Symbol	MMP9
Synonyms	MMP9; matrix metalloproteinase 9; matrix metalloproteinase-9; GELB; MMP-9; gelatinase B; 92 kDa gelatinase; 92 kDa type IV collagenase; 92-kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B 92-kDa type IV collagenase); matrix metalloproteinase 9 (gelatinase B, 92-kDa type IV collagenase);
Gene ID	81687
mRNA Refseq	NM_031055
Protein Refseq	NP_112317
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Endochondral Ossification, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific

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	biosystem; Leukocyte transendothelial migration, conserved biosystem; Matrix Metalloproteinases, organism-specific biosystem;
Function	fibronectin binding; metal ion binding; metalloendopeptidase activity; metalloendopeptidase activity; metalloendopeptidase activity; metalloendopeptidase activity; metallopeptidase activity; metallopeptidase activity; peptidase activity; peptidase activity; protein binding; protein complex binding; zinc ion binding;