## abcam

## Product datasheet

## Recombinant Human MMP12 protein abl31994

1 References 1 Image

Description

| Product name | Recombinant Human MMP12 protein |
| :--- | :--- |
| Expression system | Wheat germ |
| Accession | $\underline{\mathbf{P 3 9 9 0 0}}$ |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |


| Sequence |  | MKFLLILLLQATASGALPLNSSTSLEKNNVLFGERYLEKFY |
| :---: | :---: | :---: |
|  |  | GLEINKLPV |
|  |  | TKMKYSGNLMKEKIQEMQHFLGLKVTGQLDTSTLEMMHA |
|  |  | PRCGVPDVHHF |
|  |  | REMPGGPVWRKHYITYRINNYTPDMNREDVDYAIRKAFQV |
|  |  | WSNVTPLKFS |
|  |  | KINTGMADILVVFARGAHGDFHAFDGKGGILAHAFGPGSGI |
|  |  | GGDAHFDED |
|  |  | EFWTTHSGGTNLFLTAVHEIGHSLGLGHSSDPKAVMFPTY |
|  |  | KYVDINTFRL |
|  |  | SADDIRGIQSLYGDPKENQRLPNPDNSEPALCDPNLSFDA |
|  |  | VTTVGNKIFF |
|  |  | FKDRFFWLKVSERPKTSVNLISSLWPTLPSGIEAAYEIEAR |
|  |  | NQVFLFKDD |
|  |  | KYWLISNLRPEPNYPKSIHSFGFPNFVKKIDAAVFNPRFYR |
|  |  | TYFFVDNQY |
|  |  | WRYDERRQMMDPGYPKLITKNFQGIGPKIDAVFYSKNKYY |
|  |  | FFQGSNQFE YDFLLQRITKTLKSNSWFGC |
| Predicted molecular weight | 80 kDa including tags |  |
| Amino acids | 1 to 470 |  |

## Specifications

Our Abpromise guarantee covers the use of ab131994 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Applications

|  | Western blot |
| :--- | :--- |
| SDS-PAGE |  |
| Form | Liquid |
| Additional notes |  |

## Additional notes

## Preparation and Storage

Stability and Storage
Shipped on dry ice. Upon delivery aliquot and store at $-80^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: $0.31 \%$ Glutathione, $0.79 \%$ Tris HCl

## General Info

| Function | May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept <br> large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or <br> hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably <br> alanine) occupying P3. |
| :--- | :--- |
| Tissue specificity | Found in alveolar macrophages but not in peripheral blood monocytes. <br> Sequence similarities <br> Belongs to the peptidase M10A family. <br> Contains 4 hemopexin-like domains. |
| Domain | The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus <br> inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation- <br> peptide release activates the enzyme. |
| Cellular localization | Secreted >extracellular space >extracellular matrix. |

Images

| $\begin{gathered} 175- \\ 83- \\ 62- \\ 47.5- \\ 32.5- \\ 25- \\ \\ 16- \end{gathered}$ |
| :---: |
| SDS-PAGE - Recombinant Human MMP12 protein (ab131994) |

$12.5 \%$ SDS-PAGE using ab131994 stained with Coomassie Blue.

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