

## Datasheet: PHP122

|                      |                               |
|----------------------|-------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN SDF-1 ALPHA |
| <b>Name:</b>         | SDF-1 ALPHA                   |
| <b>Other names:</b>  | CXCL12a                       |
| <b>Format:</b>       | Rec. Protein                  |
| <b>Product Type:</b> | Recombinant Protein           |
| <b>Quantity:</b>     | 10 µg                         |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                   | Yes | No | Not Determined | Suggested Dilution |
|-------------------|-----|----|----------------|--------------------|
| ELISA             | ▪   |    |                | 0.2 - 0.4ng/well   |
| Western Blotting  | ▪   |    |                | 1.5 - 3.0ng/lane   |
| Functional Assays | ▪   |    |                | 20ng/ml - 80ng/ml  |

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only.

|                                       |                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Human                                                                                                                                                                                                                      |
| <b>Product Form</b>                   | Purified recombinant protein - lyophilised                                                                                                                                                                                 |
| <b>Reconstitution</b>                 | Reconstitute with 0.1ml distilled water<br>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. |
| <b>Preparation</b>                    | Recombinant protein prepared in <i>E. coli</i>                                                                                                                                                                             |
| <b>Preservative Stabilisers</b>       | None present                                                                                                                                                                                                               |
| <b>Endotoxin Level</b>                | <0.1ng/ug                                                                                                                                                                                                                  |
| <b>Approx. Protein Concentrations</b> | 0.1 mg/ml after reconstitution.                                                                                                                                                                                            |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P48061</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">6387</a>   CXCL12   <a href="#">Related reagents</a></p>                                     |
| <b>Synonyms</b>                       | SDF1, SDF1A, SDF1B                                                                                                                                                                                                         |

|                                      |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Information</b>           | Stromal cell derived factor 1 alpha (SDF1 alpha) belongs to the C-X-C family of human chemokines.                                                                                                                                                                                                                                                              |
| <b>Protein Molecular Weight</b>      | 8.0kD (68 amino acid sequence)                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                        | >98% by SDS PAGE and HPLC                                                                                                                                                                                                                                                                                                                                      |
| <b>ELISA</b>                         | PHP122 may be used in ELISA applications with either <a href="#">AHP794</a> or <a href="#">AHP794B</a> .                                                                                                                                                                                                                                                       |
| <b>Western Blotting</b>              | PHP122 may be used under reducing or non-reducing western blotting conditions with either <a href="#">AHP794</a> or <a href="#">AHP794B</a> .                                                                                                                                                                                                                  |
| <b>Storage</b>                       | <p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| <b>Shelf Life</b>                    | <p>3 months from date of reconstitution.</p> <p>Please see label for expiry date.</p>                                                                                                                                                                                                                                                                          |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10268 available at:<br>10268: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf</a>                                                                                                                                                       |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                     |

## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN SDF-1 ALPHA \(AHP794\)](#)

[RABBIT ANTI HUMAN SDF-1 ALPHA:Biotin \(AHP794B\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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