

## Datasheet: PHP183

|                      |                              |
|----------------------|------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN WNT-1      |
| <b>Name:</b>         | WNT-1                        |
| <b>Other names:</b>  | WNT-1 PROTO-ONCOGENE PROTEIN |
| <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 |
|-------------------|-----|----|----------------|--------------------|
| Functional Assays | ▪   |    |                |                    |

Where this product 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. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified recombinant protein - lyophilized  |
| <b>Reconstitution</b>           | Reconstitute with 100 µl distilled water. 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>              | Purified recombinant Wnt-1 expressed in <i>E.coli</i>   |
| <b>Source</b>                   | E.coli  |
| <b>Preservative Stabilisers</b> | None present  |
| <b>Carrier Free</b>             | Yes   |
| <b>Endotoxin Level</b>          | < 1.0 EU/ug   |
| <b>Approx. Protein</b>          | 0.1 mg/ml   |

## Concentrations

### External Database Links

#### UniProt:

[P04628](#)

[Related reagents](#)

#### Entrez Gene:

[7471](#)

WNT1

[Related reagents](#)

### Synonyms

INT1

### Product Information

Wnt-1, formerly known as int-1, is a non-glycosylated secreted protein associated with the extracellular matrix, involved in normal embryonic development and particularly linked with breast cancer.

Wnt-1, which signals through binding to the Frizzled family of transmembrane receptors, was originally identified as a proto-oncogene implicated in carcinomas induced by the mouse mammary tumour virus (MMTV). Wnt-1 belongs to a family of Wnt genes involved in the dorso-ventricular development of the mesoderm during embryogenesis, with a restricted temporal and spatial pattern of expression.

### Protein Molecular Weight

38.4 kDa (343 amino acid residues)

### Activity

The ED<sub>50</sub> was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine ATDC5 cells. The expected ED<sub>50</sub> for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.

### Purity

>98% by SDS PAGE and HPLC

### References

1. Gherghe, C.M. *et al.* (2011) Wnt1 is a proangiogenic molecule, enhances human endothelial progenitor function, and increases blood flow to ischemic limbs in a HGF-dependent manner. [FASEB J. 25: 1836-43.](#)
2. Maguschak, K.A. & Ressler, K.J. (2011) Wnt signaling in amygdala-dependent learning and memory. [J Neurosci. 31 \(37\): 13057-67.](#)

### Storage

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

3 months from date of reconstitution

### Health And Safety Information

Material Safety Datasheet documentation #10268 available at:  
<https://www.bio-rad-antibodies.com/SDS/PHP183>  
10268

### Regulatory

For research purposes only

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|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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