

## DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human CILP-1 C-Terminal Fragment in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human CILP-1 N-terminal peptide is observed.                    |
| <b>Source</b>             | Polyclonal Sheep IgG  |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human CILP-1 C-Terminal Fragment<br>Arg724-Asn1184<br>Accession # O75339  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                     | Recommended Concentration | Sample                                       |
|---------------------|---------------------------|--|
| <b>Western Blot</b> | 0.1 µg/mL                 | Recombinant Human CILP-1 C-Terminal Fragment |

## PREPARATION AND STORAGE

|                                |   |
|--------------------------------|---|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C  |
| <b>Stability &amp; Storage</b> | <p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

The CILP-1 (cartilage intermediate-layer protein 1) gene product is a monomeric glycoprotein precursor of two secreted, proteolytically generated products, a 90 kDa N-terminal CILP-1, and a 62 kDa C-terminal NTPPHase-homolog. It is found in both hyaline and fibrocartilage. Although the C-terminal NTPPHase-homolog (aa 725-1184) does not show enzyme activity, it may participate in matrix structural integrity. Human CILP-1 C-terminus shares 93% and 94% aa identity with porcine and mouse CILP-1 C-terminus, respectively.