

## Active Recombinant Pig LGALS4 protein, His-tagged

**Cat. No.** LGALS4-415P    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Active Recombinant Pig LGALS4 protein(Q29058)(1~323 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-323 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | <p>Galectin-4(GAL4) is a protein that in humans is encoded by the LGALS4 gene. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. LGALS4 is an S-type lectin that is strongly underexpressed in colorectal cancer. In this case, we chose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute the recombinant pig GAL4 with 0.9% sodium chloride injection, add 50μL a serial dilution of GAL4 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control without GAL4, replace with 50μL 0.9% sodium chloride injection. Then add 50μL 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown. It was obvious that the minimal effective concentration of GAL4 is 7.5 μg/mL.</p> |

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|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 39.6kDa                                                                                                    |
| <b>Endotoxin</b>      | <1.0EU per 1µg (determined by the LAL method).                                                             |
| <b>Purity</b>         | > 95% as determined by SDS-PAGE.                                                                           |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                       |

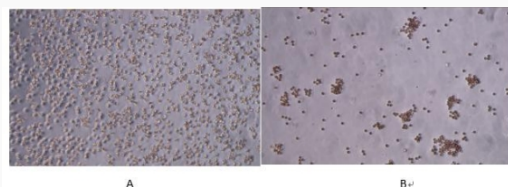
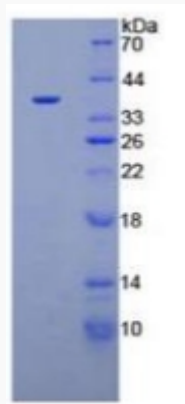
## GENE INFORMATION

|                        |                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | LGALS4 lectin, galactoside-binding, soluble, 4 [ <i>Sus scrofa</i> ]                                                                                                                                                    |
| <b>Official Symbol</b> | LGALS4                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | LGALS4; lectin, galactoside-binding, soluble, 4; galectin-4; gal-4; lactose-binding lectin 4; L-36 lactose binding protein; L-36 lactose-binding protein; lectin, galactoside-binding, soluble, 4 (galectin 4); L36LBP; |
| <b>Gene ID</b>         | 397041                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_213981                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_999146                                                                                                                                                                                                               |

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**Activity****SDS-PAGE**

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