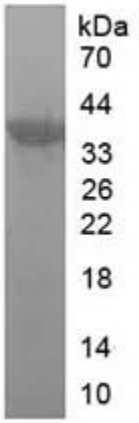
# Active Galectin 4 (GAL4)

*Catalog#:PER12324*

## 概述（Summary）

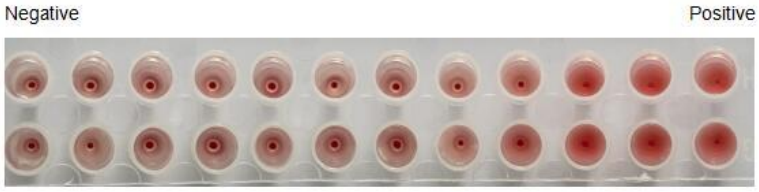
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| **别称（Alternative Names）** | LGALS4; Lactose-Binding Lectin 4; L-36 Lactose-Binding Protein; L36LBP; Lectin,Galactoside-Binding Soluble 4 |
| **纯度（Purity）** | Greater than 90% as determined by reducing SDS-PAGE. |
| **内毒素（Endotoxin level）** | Please contact with the lab for this information |
| **蛋白构建（Construction）** | 【Tyr19-Ile324】 |
| **Accession #** | P38552 |
| **表达宿主（Host）** | E.coli |
| **种属（Species）** | Rattus norvegicus (Rat) |
| **预测分子量（Predicted MW）** | 38.1 kDa |
| **制剂（Form）** | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **运输方式（Shipping）** | The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below. |
| **稳定性&储存（Stability &Storage）** | 12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles. |
| **复溶（Reconstitution）** | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |
| **背景介绍（References）** | Galectin that binds lactose and a related range of sugars. |

## 电泳图（SDS-PAGE image）




Greater than 90% as determined by reducing SDS-PAGE.

## 活性图（Bioactivity image）




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 rat 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 in Figure 1. It was obvious that the minimal effective concentration of GAL4 is 7.5µg/mL. Figure 2. The hemagglutination assay of GAL4 in V- bottom shaped 96-well microtiter plate.

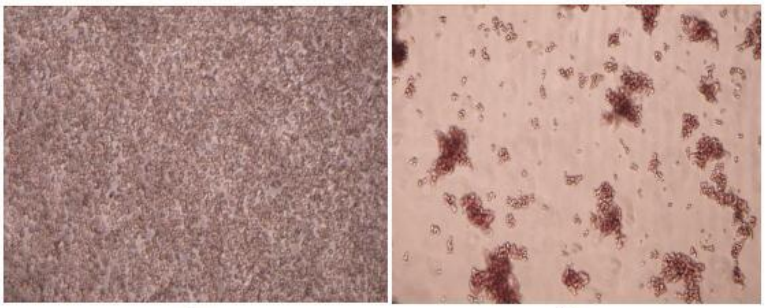



Figure 1. The hemagglutination of recombinant rat GAL4
(A) Rabbit erythrocyte reacted without GAL4 for 3h;
(B) Rabbit erythrocyte reacted with 7.5ug/ml GAL4 for 3h.

## 注意事项（Note）

For Research Use Only , Not for Diagnostic Use.