

Active Recombinant Rat Lgals12 protein, His-tagged

Cat. No. Lgals12-445R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Lgals12 protein(D3ZBX1)(119~311 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	119-311 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Galectin-12 is a member of a family of mammalian lectins known as galectins. The galectins constitute a large family of carbohydrate-binding proteins that function in many systems both intracellularly and following secretion. Galectins contain either one or two carbohydrate recognition domains (CRR) which mediate recognition of N-acetyl-lactosamine-containing glycoproteins. Individual galectins differ in their tissue distribution and in their carbohydrate-binding specificities. Galectin-12 is predominantly expressed in adipose tissue and detected also in macrophages and other leukocytes. It plays an important role in cell-cell adhesion, cell-matrix interactions, macrophage activation, angiogenesis, metastasis, apoptosis. 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 GAL12 with 0.9% sodium chloride injection, add 50μL a serial dilution of GAL12 to each well

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l of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL12, 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 GAL12 is 3.125 µg/mL.

Molecular Mass	25.4kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 80% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Lgals12 lectin, galactoside-binding, soluble, 12 [Rattus norvegicus]
Official Symbol	Lgals12
Synonyms	LGALS12; lectin, galactoside-binding, soluble, 12; galectin-12; lectin, galactose binding, soluble 12;
Gene ID	293710
mRNA Refseq	NM_001106333

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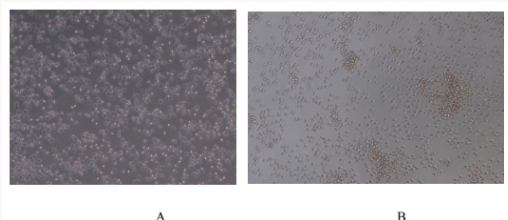
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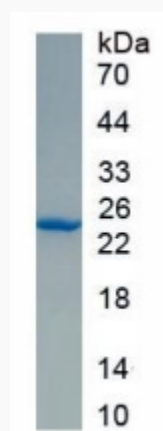
Protein Refseq

NP_001099803

Activity



SDS-PAGE



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