Datasheet for ABIN7274694

LGALS1/Galectin 1 Protein (AA 2-135) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	LGALS1/Galectin 1 (LGALS1)
Protein Characteristics:	AA 2-135
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LGALS1/Galectin 1 protein is labelled with Fc Tag.

Product Details

Purpose:	Human Galectin 1 Protein
Sequence:	Ala2-Asp135
Characteristics:	Recombinant Human Galectin 1 Protein is expressed from HEK293 with hFc tag at the N-Terminus.It contains Ala2-Asp135.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human GAL1, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-GAL1 Antibody, hFc Tag with the EC50 of 40.6ng/ml determined by ELISA. See testing image for detail.

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Target Details

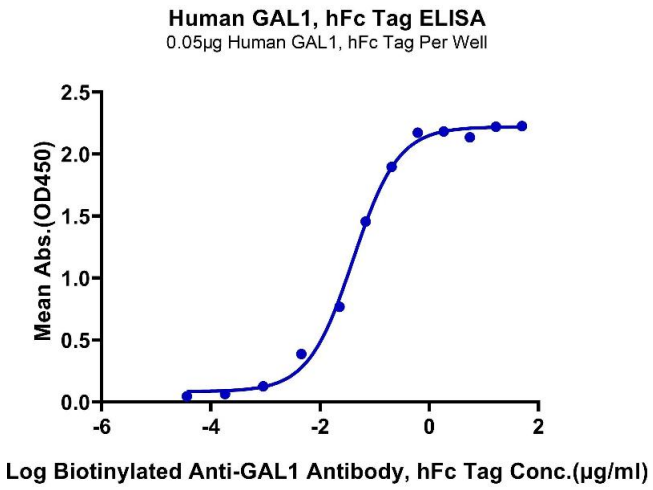
Target:	LGALS1/Galectin 1 (LGALS1)
Alternative Name:	GAL1 (LGALS1 Products)
Background:	Galectin 1(Gal-1), a β-galactoside binding mammalian lectin of 14KDa, is implicated in many signalling pathways, immune responses associated with cancer progression and immune disorders. Inhibition of human Gal-1 has been regarded as one of the potential therapeutic approaches for the treatment of cancer, as it plays a major role in tumour development and metastasis by modulating various biological functions viz. apoptosis, angiogenesis, migration, cell immune escape.
Molecular Weight:	41.9 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Tris-Bis PAGE result.
UniProt:	P09382
Pathways:	Carbohydrate Homeostasis

Application Details

Restrictions:	For Research Use only

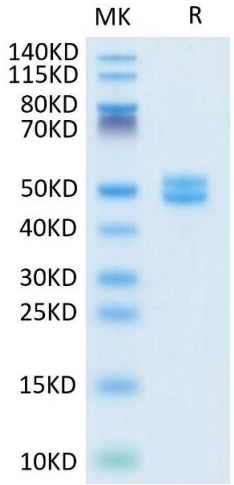
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



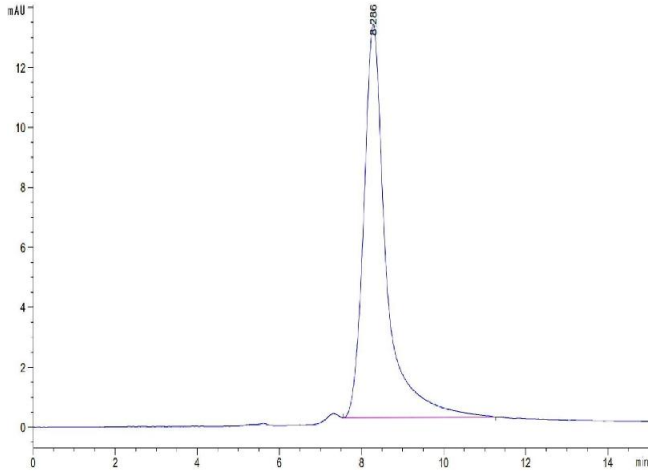
ELISA

Image 1. Immobilized Human GAL1, hFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-GAL1 Antibody, hFc Tag with the EC50 of 40.6 ng/mL determined by ELISA.



SDS-PAGE

Image 2. Human GAL1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human GAL1 is greater than 95 % as determined by SEC-HPLC.

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