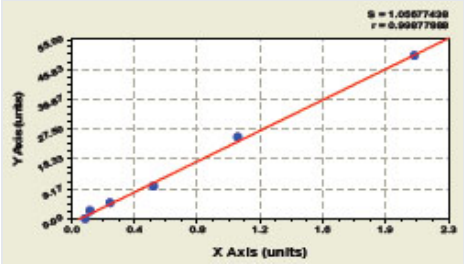
Galectin 1 (GAL1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Galectin 1 (GAL1), ELISA Kit
Full Product Name	Human Galectin 1 ELISA Kit
Product Gene Name	GAL1 elisa kit
Species Reactivity	Human
Assay Type	Competitive or Sandwich
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	14,716 Da
OMIM	150570
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Highest Standards	10ng/mL
Concentration of Standards	Concentration of Standards||0,0.5,1.0,2.5,5.0,10ng/mL
Product Categories/Family for GAL1 elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for GAL1 elisa kit	**For samples:** Serum, plasma, cell culture supernatants, body fluid and tissue homogenate **INTENDED USE** This GAL1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human GAL1. This ELISA kit for research use only! **PRINCIPLE OF THE ASSAY** GAL1 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for GAL1. Standards or samples are then added to the microtiter plate wells and GAL1 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of GAL1 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for GAL1 are added to each well to “sandwich” the GAL1 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain GAL1 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GAL1 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of GAL1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GAL1 purchase	MBS721030 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Galectin 1 (GAL1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GAL1. The ELISA analytical biochemical technique of the MBS721030 kit is based on GAL1 antibody-GAL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GAL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GAL1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of GAL1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAL1. It may not necessarily be applicable to this product.

NCBI GI #	4504981
NCBI GeneID	3956
NCBI Accession #	NP_002296.1
UniProt Secondary Accession #	Q9UDK5; B2R5E8
UniProt Related Accession #	P09382
GenBank Nucleotide #	NM_002305.3
NCBI Official Full Name	galectin-1
NCBI Official Synonym Full Names	lectin, galactoside-binding, soluble, 1
NCBI Official Symbol	LGALS1
NCBI Official Synonym Symbols	GBP; GAL1
UniProt Protein Name	Galectin-1
UniProt Synonym Protein Names	14 kDa laminin-binding protein; HLBP14; 14 kDa lectin; Beta-galactoside-binding lectin L-14-I; Galaptin; HBL; HPL; Lactose-binding lectin 1; Lectin galactoside-binding soluble 1; Putative MAPK-activating protein PM12; S-Lac lectin 1
Protein Family	Arabinogalactan endo-beta-1,4-galactanase
UniProt Gene Name	LGALS1
UniProt Synonym Gene Names	Gal-1; HLBP14
UniProt Entry Name	LEG1_HUMAN
NCBI Protein Information	galectin-1; HBL; HPL; gal-1; HLBP14; galaptin; galectin 1; 14 kDa lectin; S-Lac lectin 1; lactose-binding lectin 1; 14 kDa laminin-binding protein; putative MAPK-activating protein PM12; beta-galactoside-binding lectin L-14-I; beta-galactoside-binding protein 14kDa
NCBI Summary for GAL1	The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. This gene product may act as an autocrine negative growth factor that regulates cell proliferation. [provided by RefSeq, Jul 2008]

UniProt Comments for GAL1	Galectin-1: May regulate apoptosis, cell proliferation and cell differentiation. Binds beta-galactoside and a wide array of complex carbohydrates. Inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn kinase. Homodimer. Binds LGALS3BP. Interacts with CD2, CD3, CD4, CD7, CD43 and CD45. Interacts with laminin (via poly-N- acetyllactosamine). Expressed in placenta, maternal decidua and fetal membranes. Within placenta, expressed in trophoblasts, stromal cells, villous endothelium, syncytiotrophoblast apical membrane and villous stroma. Within fetal membranes, expressed in amnion, chorioamniotic mesenchyma and chorion. Expressed in cardiac, smooth, and skeletal muscle, neurons, thymus, kidney and hematopoietic cells. Protein type: Cell adhesion Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: extracellular matrix; extracellular space; proteinaceous extracellular matrix; cell surface; cytoplasm; intracellular; nucleus Molecular Function: protein binding; signal transducer activity; protein homodimerization activity; lactose binding; laminin binding; galactoside binding; glycoprotein binding Biological Process: regulation of apoptosis; myoblast differentiation; response to drug; positive regulation of I-kappaB kinase/NF-kappaB cascade; plasma cell differentiation; apoptosis; T cell costimulation; positive regulation of erythrocyte aggregation; response to axon injury; signal transduction; multicellular organismal response to stress
Research Articles on GAL1	**1.** The involvement of gal-1 in the regulation of different processes during the establishment, development and maintenance of pregnancy could be described as unique and it has emerged as an important lectin with major functions in pregnancy.
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