

ARG81503 Human Galectin 9 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81503-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81503-002	Standard	2 X 10 ng/vial	4°C
ARG81503-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81503-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81503-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81503-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81503-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81503-008	25X Wash buffer	20 ml	4°C
ARG81503-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81503-010	STOP solution	10 ml (Ready to use)	4°C
ARG81503-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81503 Human Galectin 9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Galectin 9 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Galectin 9
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	46.9 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	93.8 - 6000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.0% Inter-Assay CV: 6.9%
Alternate Names	Tumor antigen HOM-HD-21; HUAT; Galectin-9; Gal-9; Ecalectin; LGALS9A

Application Instructions

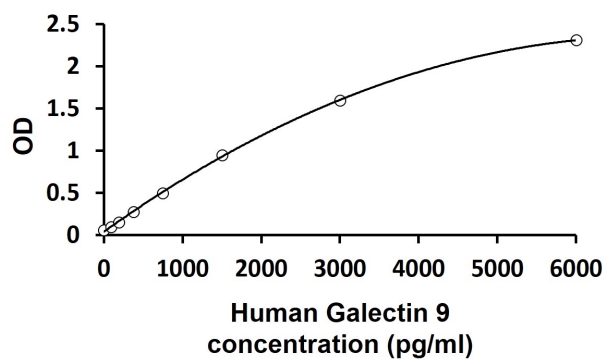
Assay Time	~ 5 hours
------------	-----------

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LGALS9
Gene Full Name	lectin, galactoside-binding, soluble, 9
Background	The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. The protein encoded by this gene is an S-type lectin. It is overexpressed in Hodgkin's disease tissue and might participate in the interaction between the H&RS cells with their surrounding cells and might thus play a role in the pathogenesis of this disease and/or its associated immunodeficiency. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]
Function	<p>Binds galactosides. Has high affinity for the Forssman pentasaccharide. Ligand for HAVCR2/TIM3. Binding to HAVCR2 induces T-helper type 1 lymphocyte (Th1) death. Also stimulates bactericidal activity in infected macrophages by causing macrophage activation and IL1B secretion which restricts intracellular bacterial growth (By similarity). Ligand for P4HB; the interaction retains P4HB at the cell surface of Th2 T helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration. Ligand for CD44; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity). Promotes ability of mesenchymal stromal cells to suppress T-cell proliferation. Expands regulatory T cells and induces cytotoxic T cell apoptosis following virus infection. Activates ERK1/2 phosphorylation inducing cytokine (IL-6, IL-8, IL-12) and chemokine (CCL2) production in mast and dendritic cells. Inhibits degranulation and induces apoptosis of mast cells. Induces maturation and migration of dendritic cells. Inhibits natural killer (NK) cell function. Can transform NK cell phenotype from peripheral to decidual during pregnancy. Astrocyte derived galectin-9 enhances microglial TNF production (By similarity). May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. May provide the molecular basis for urate flux across cell membranes, allowing urate that is formed during purine metabolism to efflux from cells and serving as an electrogenic transporter that plays an important role in renal and gastrointestinal urate excretion (By similarity). Highly selective to the anion urate (By similarity).</p> <p>Isoform 2: Acts as an eosinophil chemoattractant. It also inhibits angiogenesis. Suppresses IFNG production by natural killer cells (By similarity). [UniProt]</p>
Highlight	<p>Related products:</p> <p>Related news: Detecting exosomal PD-L1 secreted by cancer cells New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>



ARG81503 Human Galectin 9 ELISA Kit standard curve image

ARG81503 Human Galectin 9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.