

Datasheet for ABIN5510585
LGALS1/Galectin 1 ELISA Kit[Go to Product page](#)

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Overview

Quantity:	96 tests
Target:	LGALS1/Galectin 1 (LGALS1)
Binding Specificity:	AA 2-135
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Galectin-1
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: E.coli Immunogen sequence: A2-D135
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: 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 (at protein level). Expressed in cardiac, smooth, and skeletal muscle, neurons, thymus, kidney and hematopoietic cells. .

Target Details

Target:	LGALS1/Galectin 1 (LGALS1)
Alternative Name:	LGALS1 (LGALS1 Products)
Background:	<p>Protein Function: 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. Strong inducer of T-cell apoptosis. .</p> <p>Background: Galectin-1 is a protein that in humans is encoded by the LGALS1 gene. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin-1 may act as an autocrine negative growth factor that regulates cell proliferation. Its expression in Hodgkin Lymphoma has also been shown to mediate immunosuppression of CD8+ T-cells. Additionally, Galectin-1 is thought to play a role in creating immune tolerance in pregnancy.</p> <p>Synonyms: Galectin-1,Gal-1,14 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,LGALS1,</p> <p>Full Gene Name: Galectin-1</p> <p>Cellular Localisation: Secreted, extracellular space, extracellular matrix.</p>
UniProt:	P09382
Pathways:	Carbohydrate Homeostasis

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

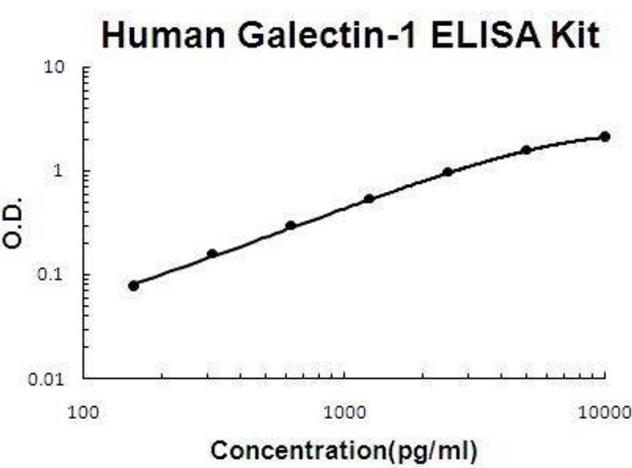
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months

Publications

Product cited in:	You, Tan, Dai, Chen, Xu, Yang, Zhang, Bai, Bie: "MiRNA-22 inhibits oncogene galectin-1 in hepatocellular carcinoma." in: Oncotarget , Vol. 7, Issue 35, pp. 57099-57116, (2018) (PubMed).
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Chong, Tang, Xiong, Jiang, Xu, Huang, Wang, Zhou, Shi, Wu, Wang: "Galectin-1 from cancer-associated fibroblasts induces epithelial-mesenchymal transition through β 1 integrin-mediated upregulation of Gli1 in gastric cancer." in: **Journal of experimental & clinical cancer research : CR**, Vol. 35, Issue 1, pp. 175, (2017) ([PubMed](#)).



ELISA

Image 1. Human Galectin-1 PicoKine ELISA Kit standard curve